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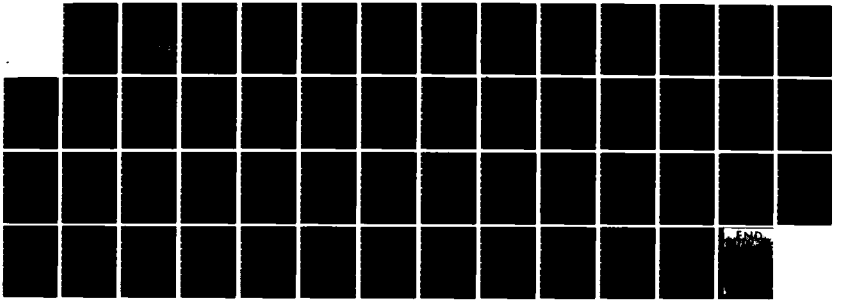

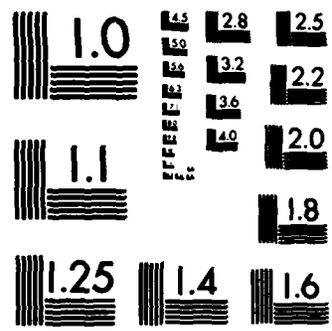

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Ada Compiler Validation Summary Report:

Western Digital STC-Ada Compiler, Version C1.0m

V-004

July 28, 1983

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Prepared By

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The Western Digital Compiler (STC-Ada), version C1.0M, was tested with version 1.1 (March 4, 1983) of the ACVC validation tests. Version 1.1 of the test suite contained 1,595 tests, of which 1,171 were applicable to STC-Ada. Of the applicable tests, 61 were withdrawn, due to errors in the tests. All of the remaining 1,110 applicable correct tests were passed.

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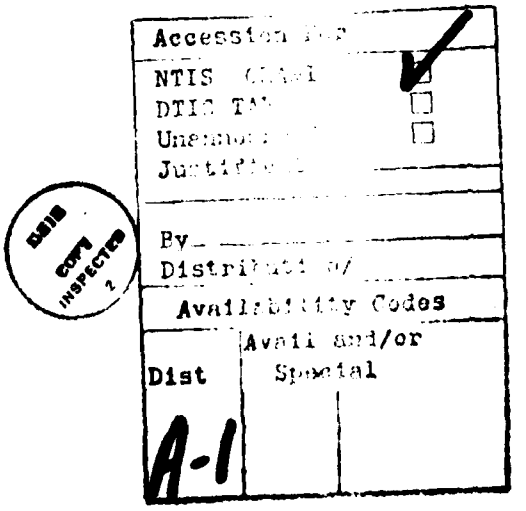

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CHAPTER 1

Introduction

1.1 Purpose of the Validation Summary Report

This report describes the results of the validation effort for the following Ada translator:

Host Machine:	Western Digital WD1600 Series MicroEngine
Operating System:	STC Ada Operating System 2.9
Host Disk System:	10 megabyte Winchester
Target Machine:	Western Digital WD1600 Series MicroEngine
Operating System:	STC Ada Operating System 2.9
Language Version:	ANSI/MIL-STD-1815A Ada
Translator Name:	STC-Ada
Translator Version:	C1.0m
Validator Version:	1.1 (March 4, 1983)

Testing of this translator was conducted by SofTech, Inc, under the supervision of the Ada Validation Office (AVO), at the direction of the Ada Joint Program Office. Testing was conducted from July 26, 1983 through July 28, 1983 at the Western Digital System Technology Center, Pittsburgh, Pa., in accordance with AVO policies and procedures.

The purpose of this report is to document the results of the testing performed on the translator, and in particular, to:

- identify any language constructs supported by the translator that do not conform to the Ada standard.
- identify any unsupported language constructs required by the Ada standard.
- describe implementation-dependent behavior allowed by the standard.

1.2 Use of the Validation Summary Report

The Ada Validation Office may make full and free public disclosure of this report in accordance with the "Freedom of Information Act" (5 U.S.C. #552). The results of the validation are only for the purpose of satisfying United States Government requirements, and apply only to the computers, operating systems, and compiler version identified in this report.

1.2 Use of the Validation Summary Report

The Ada Compiler Validation Capability is used to determine insofar as is practical, the degree to which the subject compiler conforms to the Ada standard. Thus, this report is necessarily discretionary and judgmental. The United States Government does not represent or warrant that the statements, or any one of them, set forth in this report are accurate or complete, nor that the subject compiler has no other nonconformances to the Ada standard. This report is not meant to be used for the purpose of publicizing the findings summarized therein.

Questions regarding this report or the validation tests should be sent to the Ada Validation Office at:

Ada Joint Program Office
Room 3D 139 (400 Army Navy Drive)
Pentagon
Washington, D.C. 20301

1.3 References

Reference Manual for the Ada Programming Language, ANSI/MIL-STD-1815A, January 1983.

Ada Validation Organization: Policies and Procedures, Mitre Corporation, June 1982, PB 83-110601.

Ada Compiler Validation Implementers' Guide, SofTech, Inc., October 1980.

The Ada Compiler Validation Capability, Computer, Vol. 14, No. 6, June 1981.

Using the ACVC Tests, SofTech, Inc., November 1981.

Ada Compiler Validation Plans and Procedures, SofTech, Inc., November 1981.

1.4 Definitions of Terms

Class A tests are passed if no errors are detected at compile time. Although these tests are constructed to be executable, no checks can be performed at run-time to see if the test objective has been met; this distinguishes Class A from Class C tests. For example, a Class A test might check that keywords of other languages (other than those already reserved in Ada) are not treated as reserved words by an Ada implementation.

Class B tests are illegal programs. They are passed if all the errors they contain are detected at compile-time (or link-time) and no legal statements are considered illegal by the compiler.

Class L tests consist of illegal programs whose errors cannot be detected until link time. They are passed if errors are detected prior to beginning execution of the main program.

Class C tests consist of executable self-checking programs. They are passed if they complete execution and do not report failure.

Class D tests are capacity tests. Since there are no firm criteria for the number of identifiers permitted in a compilation, number of units in a library, etc., a compiler may refuse to compile a class D test. However, if such a test is successfully compiled, it should execute without reporting a failure.

Class E tests provide information about an implementation's interpretation of the Standard. Each test has its own pass/fail criterion. There were no class E tests in Version 1.1 of the test suite.

CUSTOMER: The agency requesting the validation (Western Digital Corporation).

HOST: The computer on which the compiler executes (WD1600 Series MicroEngine).

ACVC: Acronym for the Ada Compiler Validation Capability.

RM: The Ada Language Reference Manual.

IG: ACVC Implementers' Guide.

AVO: The Ada Validation Office. In the context of this report, the AVO is responsible for conducting compiler validations.

TARGET: The computer for which a compiler generates object code (WD1600 Series MicroEngine).

VALIDATION: The process of validating a compiler. The term is used interchangeably with test or compiler test.

VALIDATION TESTS: The generic form used to refer to a set of test programs which evaluate how closely a compiler conforms to its language specification. In this report, the term will be used (unqualified) to mean the ACVC tests.

CHAPTER 2

Test Analysis

A summary of tests processed, by class, is given below, where:

Pr = processed.
NA = found to be inapplicable for this implementation.
Er = found to be incorrect, and withdrawn from the validation.
P = passed.
F = failed.
FE = failed to execute to completion.
FC = failed to compile successfully.
Fs = total of all failures (i.e., F+FE+FC).

The following table shows that Western Digital's STC-Ada compiler passed all applicable correct tests.

Test Class	Pr	NA	Er	P	F	FE	FC	Fs	%Pass
A	45	1	1	43	0	0	0	0	100
B	552	9	38	505	0	0	0	0	100
C	699	127	22	550	0	0	0	0	100
D	12	8	0	4	0	0	0	0	100
L	10	2	0	8	0	0	0	0	100
Total	1318	147	61	1110	0	0	0	0	100

147 tests in the suite were processed but were found to be not applicable to the STC-Ada translator (see section 4.2.7).

In addition, 60 tests were withdrawn from the test suite because they did not conform to the ANSI/MIL-STD-1815A Standard for the Ada Language standard (see Section 4.2.6 for details).

2.1 Class A Testing

Class A tests check that legal Ada programs can be successfully compiled. These tests are executed but contain no executable self-checking capabilities. There were 45 class A test programs processed in this validation.

2.1.1 Class A Test Procedures

Each class A test was separately compiled and executed. However, the only purpose of execution is to produce a message indicating that the test passed.

2.1.2 Class A Test Results

Successful compilation and execution without any error messages indicates the tests passed. One class A test was withdrawn because it was found to contain an error (see section 4.2.6). In addition, one class A test was inapplicable to this implementation (see section 4.2.7). The remaining 43 class A tests passed, although one class A test (AE2101A-B) contained more generic instantiations than the implementation could successfully compile. This test was passed after it was split into subtests, each containing a small number of instantiations.

2.2 Class B Testing

Class B tests check the ability to recognize illegal language usage. 552 class B tests were processed.

2.2.1 Class B Test Procedures

Each class B test was separately compiled. The resulting test compilation listings were manually examined to see whether every error in the test was detected and whether one or more of the error messages associated with these errors are present. If all errors were not detected, a version of the test was created that contained only undetected errors. This revised version was recompiled and the results analyzed. If all errors were still not detected, the revision process was repeated until a revised test contained only a single illegal construct.

A B test is considered to fail only if a version of the test containing a single illegal construct is accepted by the compiler (i.e., an illegal construct is not detected) or a version containing no errors is rejected (i.e., a legal construct is rejected).

2.2.2 Class B Test Results

552 class B tests were presented to the compiler. 9 of these tests were found to be inapplicable to this implementation (see Section 4.2.7); 38 tests were found to be incorrect (i.e., a conforming compiler would have failed each of these tests). All 505 remaining class B tests passed. All 3166 individual errors were correctly detected by the compiler.

Because all errors were not detected when compiling the original tests, the following 45 tests were modified by removing the detected errors; the modified tests were then resubmitted to see if the remaining errors would be detected:

2.2.2 Class B Test Results

B22003A.ADA	B37203A.ADA	B48002E-AB.ADA	B56001A-AB.ADA	B83A01A.ADA
B29001A.ADA	B37301A.ADA	B48002G-AB.ADA	B57001A.ADA	B83A01C.ADA
B33002A.ADA	B37302A-AB.ADA	B48002I-B.ADA	B57001B-B.ADA	B95006A.ADA
B35701A.TST	B38003A-AB.ADA	B51001A.ADA	B57001C.ADA	B95006B.ADA
B36171A-B.ADA	B38008A-B.ADA	B51003A.ADA	B57001D.ADA	B95007A.ADA
B36201A-B.ADA	B38008B-AB.ADA	B53009A.ADA	B58002A-B.ADA	BC1002A-AB.ADA
B37003A-AB.ADA	C41203A-B.ADA	B54A20A.ADA	B59001A.ADA	BC3013A-AB.ADA
B37201A.ADA	C41203B-B.ADA	B54A25A-B.ADA	B59001C.ADA	BE2101E-B.ADA
B37202A.ADA	B48002C-B.ADA	B55A01A-AB.ADA	B61001A.ADA	BE3802A-B.ADA

All illegal constructs were eventually detected except in some tests that were withdrawn because of errors in the tests (see Section 4.2.8).

Test B36101A-AB had to be modified because the original version was too large to be successfully compiled.

Of the 552 Class B tests processed, 9 were inapplicable to this implementation (see section 4.2.7), and 38 were withdrawn because the tests were incorrect (see section 4.2.6). The remaining 505 tests contained 3166 illegal constructs; all illegal constructs were correctly detected, and no legal constructs were rejected.

2.3 Class C Testing

Class C tests check that legal Ada programs are correctly compiled and executed by an implementation. 699 class C tests were processed in this validation attempt.

2.3.1 Class C Test Procedures

Each Class C test was separately compiled and executed. The tests are self-checking and produce PASS-FAIL messages. All "failed" tests were individually checked to see if they were correct and if they were applicable to the implementation. Those tests that were inapplicable or that did not conform to the Ada standard were withdrawn.

2.3.2 Class C Test Results

All class C tests were processed except those tests requiring a floating point precision exceeding SYSTEM.MAX_DIGITS (277 tests). In addition, the following tests exceeded certain implementation capacity limits and had to be modified to be run successfully:

C38102A-AB	C41203B-B	CE3305A-B
C41203A-B	AE2101 -B	

Certain Chapter 14 tests raised USE_ERROR when attempting to create or open a file (see section 4.2.7). Since the implementation consistently raised USE_ERROR for all attempts to open or create sequential, direct, or text

files, all tests that propagated USE_ERROR out of the main program or that reported failure because of USE_ERROR were considered inapplicable.

699 class C tests were processed. 22 tests were withdrawn because of errors in the tests; in addition, 127 tests were found to be inapplicable to this implementation. The remaining 550 tests passed.

2.4 Class D Testing

Class D tests are executable tests used to check an implementation's compilation and execution capacities. 12 class D tests were used in this validation.

2.4.1 Class D Test Procedures

Each Class D test was separately compiled and executed. The tests are self-checking and produce PASS-FAIL messages.

2.4.2 Class D Test Results

Of the 12 class D tests, 4 passed and the rest were found to be inapplicable to this implementation. See section 4.2.7 for further information.

2.5 Class L Testing

Class L tests check that incomplete or illegal Ada programs involving multiple separately compiled source files are detected at link time and are not allowed to execute. 10 test programs were processed in this validation attempt.

2.5.1 Class L Test Procedures

Each Class L test was separately compiled and execution was attempted. The tests produce FAIL messages if executed. All "failed" tests were individually checked to see if they were correct and if they were applicable to the implementation. Those tests that were inapplicable or that did not conform to the Ada standard were withdrawn.

2.5.2 Class L Test Results

Of the 10 class L tests, 3 were found to be inapplicable to this implementation (see section 4.2.7). The remaining 7 tests passed.

CHAPTER 3

Compiler Nonconformances

There were no nonconformances to the Ada standard detected in this validation. The compiler passed all applicable tests.

CHAPTER 4

Additional Information

This section describes in more detail how the validation was conducted.

4.1 Compiler Parameters

Certain tests do not apply to all Ada compilers, e.g., compilers are not required to support several predefined floating point types, and so tests must be selected based on the predefined types an implementation actually supports. In addition, some tests are parameterized according to the maximum token length supported by an implementation, the maximum floating point precision supported, etc. The implementation dependent parameters used in performing this validation were:

- maximum token length: 255 characters.
- maximum digits value for floating point types: 6.
- SYSTEM.MIN_INT: -32,767 (-(2**16) + 1)
- SYSTEM.MAX_INT: 32,767 (2**16 - 1)
- predefined numeric types: INTEGER, FLOAT.
- INTEGER'FIRST: 32,767 (-(2**16) + 1)
- INTEGER'LAST: 32,767 (2**16 - 1)
- source character set: ASCII

4.2 Testing Information

Tests were compiled/executed at the Western Digital System Technology Center, Pittsburgh, PA. Three MicroEngines simultaneously executed the tests using a control program prepared by Western Digital and reviewed by the validation team.

4.2.1 Pre-Test Procedures

Prior to testing, appropriate values for the compiler-dependent parameters were determined. Instead of generating tests using these parameter values, it was decided to simply check the tests prepared by Western Digitial to ensure the correct values were being used (see Section 4.2.3).

4.2.2 Control Files

Western Digital provided a program that compiled and executed tests automatically. This program is given in Appendix B of this report.

4.2.3 Test Procedures

Since Western Digitial had no on-site capability for transferring tape files to disk, the validation was performed using Western Digital's copy of the Version 1.1 ACVC tests. Spot checks were made to ensure these tests had not been modified, except for the parameterized tests (which require modification). Three MicroEngines were used in parallel to run the tests; each computer ran a single job stream.

The package REPORT and the procedure CHECK_FILE were first compiled and the corresponding library file saved for each machine. The tests checking the report package and CHECK_FILE procedure were executed on one of the machines. Then all class B tests were run, followed by the remaining tests. The results were checked manually. When tests could not be compiled because they exceeded the implementation's capacity, the tests were split into smaller tests and run.

4.2.4 Test Analysis Procedures

On completion of testing, all results were analyzed for failed class A, C, D, or L programs, and all class B compilation results were individually analyzed. Analysis procedures are described for each test class in chapter 2.

Tests found to contain errors were withdrawn.

4.2.5 Performance Information

The time required for running all the tests was approximately 15.5 hours, using three machines. No timing information was captured in machine readable form. However, the time required to compile and execute a few tests was noted manually and is reported in Appendix A. All timing information is real (not CPU) time.

4.2.6 Description of Errors in Withdrawn Tests

The following tests in version 1.1 of the ACVC did not conform to the ANSI Ada standard and were withdrawn for the reasons given below.

- 'RANGE was assumed to yield a subtype: B32201A-B.ADA.
- This test is incorrect for an implementation such that the value one is not in the range of values for subtype PRIORITY: C34001A-B.ADA.

4.2.6 Description of Errors in Withdrawn Tests

- NUMERIC_ERROR (instead of STORAGE_ERROR) may be raised when declaring an array type with a dimension whose length exceeds INTEGER'LAST: C36202A-B, C36202B-B, C52103Y.

- An explicit range constraint was specified in a discriminant specification: B37004H-B.ADA.

- An expression using a basic operation (in particular, the membership and short circuit logical operations) is not static: C37307A.ADA, C54A27A-AB.ADA.

- An incorrect value in an expression made the expression non-static when it was required to be static: B37310B-B.ADA.

- This test contained an illegal reference to an incomplete type: C38102A-AB.ADA.

- A test checking that discriminant specifications satisfied the conformance rules specified in RM 6.3.1 incorrectly allowed a new name (obtained by a renaming declaration) to be considered identical to the old name: B38103A-B.ADA.

- Qualification instead of conversion was needed to disambiguate an enumeration literal: C45401B.ADA.

- Incorrect allocator syntax was used: B48002J-AB.ADA.

- CONSTRAINT_ERROR should be raised instead of NUMERIC_ERROR when a named number exceeds the range of a base type to which it is being converted: C52007A-B.ADA.

- 'RANGE was incorrectly assumed to produce a static range: A55B14A-AB.ADA.

- An attempt was made to read an out parameter: C58004C.ADA, C63004A.ADA, C64106A-B.ADA.

- Formal parameters of a limited type were not allowed to have default expressions: B61005A.ADA, B61005B.ADA.

- This test was constructed so that a single error required two diagnostic messages for the test to be passed, violating test coding guidelines that no "second-order" illegal constructs would appear: B74001A.ADA.

- A deferred constant was allowed in the default expression of a generic formal parameter: B74301B-AB.ADA, B74301C-AB.ADA.

- Two tests contained errors concerning the visibility of statement labels, in particular, the fact that these labels are declared in the innermost enclosing block was not properly noted in these tests: B83A06A.ADA, B83A06H.ADA.

4.2.6 Description of Errors in Withdrawn Tests

- All pragmas in this test should not be considered illegal: B91002A.ADA
- Test logic incorrect: C97114A-B.ADA, C97115A-B.ADA.
- SELECT_ERROR was used incorrectly as the name of a predefined exception: B83A01B.ADA, BB2001A.ADA, CC3120B-B.ADA.
- These tests are obsolete: BA1101F0-AB.ADA, BA1101F1M-AB.ADA, CC1007A-B.ADA.
- The obsolete attribute, 'ACTUAL_DELTA, was used (instead of 'SMALL): BC1002A-AB.ADA.
- A generic formal parameter with a discriminant was used as though the discriminant had a default value: BC1206A-B.ADA, CC3203A-B.ADA, BC3205F-B.ADA, BC3205G-B.ADA, BC3205H-B.ADA, BC3205I2-B.ADA, BC3205J-B.ADA, BC3404B-B.ADA, BC3405B-B.ADA, BC3405C-B.ADA.
- A generic formal parameter's name was used as its own default name: CC1301A-AB.ADA.
- The 'POS and 'VAL attributes were used as default names for generic formal subprograms: CC1302A-AB.ADA.
- A range containing a signed and unsigned literal for its lower and upper bounds was used; such a range is illegal: BC3101B-B.ADA.
- An instantiation with an unconstrained type having default discriminants was incorrectly considered legal: BC3204A-B.ADA, BC3204B-B.ADA, BC3204C2-B.ADA, BC3204D-B.ADA, BC3205A-B.ADA, BC3205B-B.ADA, BC3205C-AB.ADA, BC3205D2-B.ADA, BC3405E-AB.ADA, BC3405F-AB.ADA.
- An instantiation with an unconstrained array type was incorrectly marked as being legal: BC3403C-AB.ADA.
- An undeclared type was used: BC3503C-B.ADA.
- Aggregates were written for a limited type: CC3601C-AB.ADA.
- Exponentiation was used with a fixed point type: CE2401E-B.DEP.
- A file reference was omitted in a call to SKIP_PAGE: CE3406C-B.ADA.

4.2.7 Description of Inapplicable Tests

277 tests were not processed because SYSTEM.MAX_DIGITS was 6. These tests were:

C24113C,D,...,Y-B	C35708C,D,...,Y-B	C45421C,D,...,Y-B
C35705C,D,...,Y-B	C35802C,D,...,Y-B	C45424C,D,...,Y-B
C35706C,D,...,Y-B	C45241C,D,...,Y-B	C45521C,D,...,Y-B
C35707C,D,...,Y-B	C45321C,D,...,Y-B	C45621C,D,...,Z-B

17 tests were inapplicable because the implementation did not support SHORT_INTEGER, LONG_INTEGER, SHORT_FLOAT, LONG_FLOAT, or LONG_LONG_INTEGER:

SHORT_INTEGER	C34001D-B, B52004E, C55B07B-AB, B55B09D-AB, B86001CR-AB
LONG_INTEGER	C34001E-B, B52004D, C55B07A-AB, B55B09C-AB, B86001CS-AB
SHORT_FLOAT	C34001F-B, C35702A-AB, B86001CP-AB
LONG_FLOAT	C34001G-B, C35702B-AB, B86001CQ-AB
LONG_LONG_INTEGER	B86001DT-AB

C55B16A-AB was inapplicable because it required support for explicitly specifying the representation of an enumeration type.

LA3004A6M-AB and LA3004B6M-B were inapplicable because they required support for the INLINE pragma.

CA1012A*-B was inapplicable because generic subprogram declarations and bodies must be given together in a single compilation for this implementation.

Two class C tests, C4A002A and C4A004A, required the evaluation of 32 bit universal integer expressions, which exceeded the capacity of the implementation; these two tests were therefore considered inapplicable.

Results for inapplicable class D tests are given in Section 4.2.8.

116 tests were inapplicable because USE_ERROR was raised when attempting to open or create a sequential, direct, or text file. (These tests are indicated in Appendix A by the entry "NA (USE_ERROR)".)

4.2.8 Information Derived from the Tests

Processing of the following tests indicated support as described below for a variety of implementation options examined by the tests.

- C24101A-B.TST: if a based integer literal has a value exceeding SYSTEM.MAX_INT, an implementation may either reject the compilation

unit at compile time or raise NUMERIC_ERROR at run-time. Raising NUMERIC_ERROR at run time is preferred, since it makes programs compilable for a wider variety of implementations (and the numeric literal might occur in an unexecutable portion of code). This test showed that STC-Ada rejects a compilation unit containing an integer literal exceeding SYSTEM.MAX_INT.

- D29002K-B.ADA: This test declares 698 identifiers and exceeded the capacity of the implementation.

- C4A002A-AB.ADA, D4A002B-AB.ADA, C4A004A-AB.ADA, D4A004B-AB.ADA: These tests contain universal integer calculations requiring 32 and 64 bits of accuracy, i.e., values that exceed SYSTEM.MAX_INT are used. An implementation is allowed to reject programs requiring such calculations, and STC-Ada rejected these programs.

- C52103X-AB.ADA, C52104X-B.ADA, C52104Y.ADA: These tests declare Boolean arrays with INTEGER'LAST+2 components. An implementation may raise NUMERIC_ERROR at the type declaration or STORAGE_ERROR when two arrays of these types are declared, or it may accept the type and object declarations. STC-Ada raised STORAGE_ERROR.

- A series of tests (D55A03^{B}-AB) check to see what level of loop nesting is allowed by an implementation. Tests containing 17 or fewer nested loops passed, and tests containing 31 or more nesting levels could not be processed without exceeding the implementation's capacity.

- D56001B-AB contains blocks nested 65 levels deep. This test exceeded the capacity of the implementation.

- C94004A-B.ADA: This test checks to see what happens when a library unit initiates a task and a main program terminates without insuring that the library unit's task is terminated. An implementation is allowed to terminate the library unit task, or it is allowed to leave the task in execution. This test showed that such library tasks do not terminate when the main program terminates.

- CA1012A4M-B.DEP: This test checks whether an implementation requires generic library unit bodies to be compiled in the same compilation as the generic declaration. STC-Ada does not allow generic declarations and bodies to be compiled in completely separate compilations.

- All Chapter 14 tests that attempted to create or open a file raised USE_ERROR, showing that this implementation does not support the creation or opening of sequential, direct, or text files.

The following incorrect tests were corrected and executed as part of the validation attempt:

4.2.8 Information Derived from the Tests

B32201A-B	B74001A	B83A01B	CC3601C-AB
B38102A-AB	B74301B-AB	CC1301A	CC3120B-B
B38103A-B	B74301C-AB	CC1302A-AB	

The following non-conformances were observed:

- B32201A-B: 'CONSTRAINED and 'STORAGE_SIZE are considered to be static attributes when applied to objects:

```
TYPE R (A : INTEGER) IS RECORD NULL; END RECORD;
R1 : R(3);
A181 : CONSTANT := BOOLEAN'POS(R1'CONSTRAINED);   -- ERROR:
```

  No error was reported for the above use of 'CONSTRAINED. Similarly, no error was reported for the following use of 'STORAGE_SIZE:

```
TYPE ACC1 IS ACCESS INTEGER;
A22 : CONSTANT := ACC1'STORAGE_SIZE;
```

  Overloading resolution is performed incorrectly for universal integer expressions, as shown by the following extract from the test:

```
DECLARE
     FUNCTION "-" (P, Q :  NATURAL) RETURN NATURAL IS ... END;
BEGIN
     DECLARE
     B2 : CONSTANT := 7 + 5 - 19;
#                              ^ Bad result type
```

- B38103A-B: Several forms of non-conforming discriminant specifications were accepted:

```
TYPE T2B(D : I1 := VV1);
TYPE T3 (D1, D2 : I; D3 : I);
TYPE T4A(D : BOOLEAN := (TRUE = TRUE));
TYPE T10(D : BOOLEAN := FALSE);

TYPE NONBOOL IS (TRUE, TOO_TRUE);
FALSE : CONSTANT BOOLEAN := FALSE;

TYPE T2B(D : I1 := (VV1)) IS        -- ERROR: ()'S
     RECORD NULL; END RECORD;
TYPE T3(D1 : I; D2, D3 : I) IS      -- ERROR: LEXICAL CHANGES.
     RECORD NULL; END RECORD;
TYPE T4A(D : BOOLEAN :=
              (TRUE = TRUE)) IS     -- ERROR: AMBIGUOUS TRUE.
     RECORD NULL; END RECORD;
TYPE T10(D : BOOLEAN := FALSE) IS   -- ERROR: DIFFERENT FALSE.
     RECORD NULL; END RECORD;
```

No errors were detected in the above cases.

. B74001A: This test showed that the full declaration of a private type could appear in illegal places:

```
PACKAGE P1 IS
     TYPE T5 IS PRIVATE;
     TYPE T5 IS RANGE 1..2;    — ERROR: IN VISIBLE PART.

     PACKAGE P2 IS
          TYPE TA IS LIMITED PRIVATE;
     PRIVATE
          TYPE ...;
     END P2;                   — ERROR: TA NOT DEFINED.
     USE P2;
PRIVATE
     TYPE TA IS RANGE 1 .. 2;
END P1;
```

. B74301B-AB: This test showed that a deferred constant can be used as a generic actual parameter prior to the constant's full declaration; it is also incorrectly allowed as a default expression for a generic formal parameter.

CHAPTER 5

Summary and Conclusions

The Ada Validation Office identified 1318 of the ACVC version 1.1 tests as being potentially applicable to the validation of the Western Digital compiler hosted on the WD1600 Series MicroEngine. Of these, 61 were withdrawn due to test errors, and 147 were determined to be inapplicable after they were processed. The compiler passed the remaining 1110 tests.

The AVO considers these results to show acceptable compliance to the January 1983 ANSI Ada Reference Manual. However, it should be noted that this implementation does not support the creation of sequential, direct, or text files.

APPENDIX A

Complete List of Tests and Results

This Appendix gives a complete list of the ACVC test files used in the validation attempt, in order by ACVC Implementers' Guide (Ada Reference Manual) section and objective.

To obtain more information about a test itself, the test name indicates the class of the test and which test objective in the ACVC Implementers' Guide applies to the test. The name is interpreted as follows, where the first column below indicates the character position in the name and the second column, the meaning of that position:

1	Class of test (A, B, C, D, E, L).
2	Implementers' Guide Chapter number (in hexadecimal).
3	Implementers' Guide Section number within a Chapter (in hexadecimal).
4	Implementers' Guide Subsection number or letter.
5, 6	Implementers' Guide Test Objective number (two digit decimal number).
7	Test sequence letter (A-Z).
8	Compilation sequence digit or letter (0-9,A-Z).
9	When there are several compilation units, "M" indicates the main program.

Characters 8 and 9 are only present for tests that consist of several separately compiled units. The eighth character indicates the order in which the units are to be compiled (unit 0 is compiled first). The ninth character is only present for the main program and is always "M".

The suffix -AB means the test is valid for both the ANSI Ada Standard and the version of Ada published in July 1980. A -B suffix implies the test is only valid for the ANSI Standard. Tests without a suffix are considered to be applicable to both the ANSI Standard and the July 1980 version.

A file name ending with .TST means the test depends on one or more of the implementation dependent parameters listed in Section 4.1. A file name ending with .DEP means the test is not necessarily applicable to all implementations.

The result for each file is also given, where:

P = passed.
PC = compilation was successful (for unit of multiple unit test).
PS = passed after modifying (splitting) the test (e.g., to see if all errors can be detected by the compiler).
F = failed.
FE = failed to execute to completion.
FC = failed to compile correctly.
NA = not applicable to this implementation.
W = withdrawn due to test errors.

In addition, the following data were collected and are given for each test file. Timing information is given only for files for which times were noted manually while the tests were executing. All times are real (i.e., wall-clock) times.

SC = n the number of semicolons in the source file.

CT = n the compilation time (in minutes:seconds).

ET = n the execution (CPU) time (in seconds).

EC = n the number of intentional errors (marked by comments) in a class B file.

The results for each test file were as follows:

A21001A.ADA	P	SC = 30	
B22001A.TST	P	SC = 26	EC = 8
B22001B.TST	P	SC = 8	EC = 3
B22001C.TST	P	SC = 9	EC = 3
A22002A.ADA	P	SC = 28	
B22003A.ADA	PS	SC = 11	EC = 5
B22004A.ADA	P	SC = 7	EC = 5
B22004B.ADA	P	SC = 6	EC = 4
B22004C.ADA	P	SC = 7	EC = 4
C23001A.ADA	P	SC = 16	
B23002A.ADA	P	SC = 13	EC = 6
C23003A.TST	P	SC = 17	
B23004A.ADA	P	SC = 19	EC = 8
B23004B.ADA	P	SC = 27	EC = 12
B24001A.ADA	P	SC = 30	EC = 14
B24001B.ADA	P	SC = 36	EC = 17
B24001C.ADA	P	SC = 37	EC = 17
C24002A.ADA	P	SC = 10	
C24002B.ADA	P	SC = 10	
C24002C.ADA	P	SC = 11	
C24003A.TST	P	SC = 15	
C24003B.TST	P	SC = 20	
C24003C.TST	P	SC = 21	
B24005A.ADA	P	SC = 14	EC = 6
B24005B.ADA	P	SC = 15	EC = 6
C24101A-B.TST	P	SC = 14	
C24102A.ADA	P	SC = 13	
C24102B.ADA	P	SC = 14	
C24102C.ADA	P	SC = 17	
C24103A.ADA	P	SC = 38	
B24104A.ADA	P	SC = 20	EC = 18
B24104B.ADA	P	SC = 8	EC = 6
B24104C.ADA	P	SC = 9	EC = 6
C24113A-B.DEP	P	SC = 18	
C24113B-B.DEP	P	SC = 18	

B26002A.ADA	P	SC = 11	EC = 4
C26002B.ADA	P	SC = 19	
A26004A.TST	P	SC = 11	
B26005A.ADA	P	SC = 37	EC = 31
C26006A.ADA	P	SC = 12	
C26008A.ADA	P	SC = 9	
C27001A.ADA	P	SC = 10	
C27002A-B.ADA	P	SC = 15	
B29001A.ADA	PS	SC = 126	EC = 62
A29002A-B.ADA	P	SC = 74	
A29002B-B.ADA	P	SC = 69	
A29002C-B.ADA	P	SC = 68	
A29002D-B.ADA	P	SC = 90	
A29002E-B.ADA	P	SC = 72	
A29002F-B.ADA	P	SC = 111	
A29002G-B.ADA	P	SC = 88	
A29002H-B.ADA	P	SC = 63	
A29002I-B.ADA	P	SC = 95	
A29002J-B.ADA	P	SC = 81	
D29002K-B.ADA	NA	SC = 766	
B32103A-AB.ADA	P	SC = 26	EC = 12
B32106A-B.ADA	P	SC = 10	EC = 4
B32201A-B.ADA	W		
B32202A-B.ADA	P	SC = 33	EC = 15
B32202B-B.ADA	P	SC = 21	EC = 9
B32202C-B.ADA	P	SC = 28	EC = 12
C32203A-B.ADA	P	SC = 15	
A32203B-B.ADA	P	SC = 22	
A32203C-B.ADA	P	SC = 18	
A32203D-B.ADA	P	SC = 16	
B33001A.ADA	P	SC = 27	EC = 10
B33002A.ADA	PS	SC = 8	EC = 5
B33003A.ADA	P	SC = 14	EC = 4
B33003B-AB.ADA	P	SC = 22	EC = 9
B33003C-AB.ADA	P	SC = 22	EC = 9
B33004A.ADA	P	SC = 33	EC = 19
C34001A-B.ADA	W		
C34001B-B.ADA	P	SC = 41	
C34001C-B.ADA	P	SC = 37	
C34001D-B.DEP	NA	SC = 24	
C34001E-B.DEP	NA	SC = 24	
C34001F-B.DEP	NA	SC = 43	
C34001G-B.DEP	NA	SC = 43	
C34001H-B.ADA	P	SC = 24	
C34001I-B.ADA	P	SC = 29	
C34001K-B.ADA	P	SC = 54	
C34001L-B.ADA	P	SC = 48	
C34001M-B.ADA	P	SC = 28	
C34001N-B.ADA	P	SC = 28	
C34001O-B.ADA	P	SC = 84	
C34001P-B.ADA	P	SC = 25	
C34001Q-B.ADA	P	SC = 27	

C34001R-B.ADA	P	SC = 21	
B34001S-AB.ADA	P	SC = 15	EC = 3
C34001T-B.ADA	P	SC = 22	
B35101A.ADA	P	SC = 6	EC = 3
C35104A.ADA	P	SC = 9	
B35301A.ADA	P	SC = 12	EC = 6
B35501A.ADA	P	SC = 34	EC = 18
C35504A-AB.ADA	P	SC = 13	
C35504B-B.ADA	P	SC = 22	
C35505A.ADA	P	SC = 28	
C35505B.ADA	P	SC = 27	
B35506A.ADA	P	SC = 36	EC = 9
B35506B.ADA	P	SC = 23	EC = 9
C35508A-AB.ADA	P	SC = 21	
C35508B-B.ADA	P	SC = 64	
B35701A.TST	PS	SC = 10	EC = 6
C35702A-AB.DEP	NA	SC = 7	
C35702B-AB.DEP	NA	SC = 7	
C35703A.ADA	P	SC = 11	
C35704A-AB.ADA	P	SC = 12	
C35704B-AB.ADA	P	SC = 12	
C35704C-AB.ADA	P	SC = 12	
C35704D-AB.ADA	P	SC = 16	
C35705A-B.DEP	P	SC = 16	
C35705B-B.DEP	P	SC = 16	
C35706A-B.DEP	PS	SC = 15	
C35706B-B.DEP	PS	SC = 15	
C35707A-B.DEP	P	SC = 11	
C35707B-B.DEP	P	SC = 11	
C35708A-B.DEP	P	SC = 11	
C35708B-B.DEP	P	SC = 11	
B35709A.ADA	P	SC = 14	EC = 3
C35802A-B.DEP	P	SC = 22	
C35802B-B.DEP	P	SC = 22	
B36101A-AB.ADA	P	SC = 119	EC = 68
B36102A.ADA	P	SC = 35	EC = 17
B36103A.ADA	P	SC = 17	EC = 7
B36171A-B.ADA	PS	SC = 68	EC = 33
B36171B-B.ADA	P	SC = 16	EC = 4
B36171C-AB.ADA	P	SC = 4	EC = 1
B36171D-AB.ADA	P	SC = 3	EC = 1
B36171E-AB.ADA	P	SC = 3	EC = 1
B36171F-AB.ADA	P	SC = 3	EC = 1
B36171G-AB.ADA	P	SC = 5	EC = 1
B36171H-AB.ADA	P	SC = 4	EC = 1
B36171I-AB.ADA	P	SC = 4	EC = 1
C36172A-B.ADA	P	SC = 86	
C36174A.ADA	P	SC = 39	
B36201A-B.ADA	PS	SC = 60	EC = 32
C36202A-B.ADA	W		
C36202B-B.ADA	W		
C36204A-B.ADA	P	SC = 51	

C36205A.ADA	P	SC = 70	
C36205B.ADA	P	SC = 62	
C36205C.ADA	P	SC = 58	
C36205D.ADA	P	SC = 72	
C36205E.ADA	P	SC = 57	
C36205F.ADA	P	SC = 58	
C36205G.ADA	P	SC = 58	
C36205H.ADA	P	SC = 59	
C36205I.ADA	P	SC = 59	
C36205J.ADA	P	SC = 67	
C36205K.ADA	P	SC = 62	
C36301A-B.ADA	P	SC = 16	
C36301B-AB.ADA	P	SC = 12	
C36302A.ADA	P	SC = 9	
C36303A.ADA	P	SC = 15	
C36304A.ADA	P	SC = 33	
C36305A-AB.ADA	P	SC = 40	
B37003A-AB.ADA	PS	SC = 35	EC = 14
B37004A-B.ADA	P	SC = 44	EC = 27
B37004C-B.ADA	P	SC = 12	EC = 4
B37004D-B.ADA	P	SC = 4	EC = 1
B37004E-B.ADA	P	SC = 8	EC = 1
B37004F-B.ADA	P	SC = 8	EC = 1
B37004G-B.ADA	P	SC = 5	EC = 1
B37004H-B.ADA	W		
C37005A.ADA	P	SC = 30	
C37007A-AB.ADA	P	SC = 60	
C37008A-B.ADA	P	SC = 126	
C37008B-B.ADA	P	SC = 99	
C37011A-B.ADA	P	SC = 26	
C37012A-AB.ADA	P	SC = 19	
C37013A-AB.ADA	P	SC = 18	
B37101A.ADA	P	SC = 44	EC = 9
C37103A-AB.ADA	P	SC = 41	
C37105A.ADA	P	SC = 18	
B37201A.ADA	PS	SC = 28	EC = 13
B37202A.ADA	PS	SC = 44	EC = 19
B37202B.ADA	P	SC = 7	EC = 1
B37203A.ADA	PS	SC = 14	EC = 6
B37204A-AB.ADA	P	SC = 54	EC = 11
B37205A-AB.ADA	P	SC = 8	EC = 3
C37208A-B.ADA	P	SC = 68	
C37208B-AB.ADA	P	SC = 37	
C37209A.ADA	P	SC = 73	
B37301A.ADA	PS	SC = 25	EC = 8
B37301B.ADA	P	SC = 33	EC = 6
B37302A-AB.ADA	PS	SC = 36	EC = 11
B37303A.ADA	P	SC = 25	EC = 5
C37304A-AB.ADA	P	SC = 22	
C37305A.ADA	P	SC = 24	
C37306A.ADA	P	SC = 21	
C37307A.ADA	W		

B37307B.ADA	P	SC	=	26	EC	= 4
C37309A-AB.ADA	P	SC	=	22		
B37309B-AB.ADA	P	SC	=	17	EC	= 2
C37310A-AB.ADA	P	SC	=	48		
B37310B-B.ADA	W					
B37311A-AB.ADA	P	SC	=	10	EC	= 2
B38001A.ADA	P	SC	=	12	EC	= 4
B38003A-AB.ADA	PS	SC	=	23	EC	= 13
C38004A.ADA	P	SC	=	19		
C38005A-B.ADA	P	SC	=	66		
C38006A-B.ADA	P	SC	=	12		
C38007A-B.ADA	P	SC	=	13		
B38008A-B.ADA	PS	SC	=	18	EC	= 8
B38008B-AB.ADA	PS	SC	=	24	EC	= 12
B38101B-AB.ADA	P	SC	=	12	EC	= 1
C38102A-AB.ADA	W					
C38102B-B.ADA	P	SC	=	16		
C38102C-B.ADA	P	SC	=	16		
B38103A-B.ADA	W					
C38104A-B.ADA	P	SC	=	34		
B38105B-AB.ADA	P	SC	=	28	EC	= 6
B41101A-B.ADA	P	SC	=	19	EC	= 5
B41101C.ADA	P	SC	=	23	EC	= 6
C41101D-B.ADA	P	SC	=	33		
B41102A-B.ADA	P	SC	=	13	EC	= 3
C41103A-B.ADA	P	SC	=	124		
C41103B-B.ADA	P	SC	=	124		
C41105A-B.ADA	P	SC	=	28		
C41106A-B.ADA	P	SC	=	22		
C41107A.ADA	P	SC	=	71		
B41201A-B.ADA	P	SC	=	58	EC	= 21
B41201C.ADA	P	SC	=	22	EC	= 5
C41201D-B.ADA	P	SC	=	36		
B41202A-B.ADA	P	SC	=	12	EC	= 3
B41202B-AB.ADA	P	SC	=	8	EC	= 1
B41202C-B.ADA	P	SC	=	8	EC	= 1
B41202D-B.ADA	P	SC	=	8	EC	= 1
C41203A-B.ADA	PS	SC	=	127		
C41203B-B.ADA	PS	SC	=	126		
C41204A.ADA	P	SC	=	29		
C41205A-B.ADA	P	SC	=	30		
C41206A.ADA	P	SC	=	29		
C41301A-B.ADA	P	SC	=	110		
B41302A.ADA	P	SC	=	9	EC	= 2
C41303A-B.ADA	P	SC	=	18		
C41303B-B.ADA	P	SC	=	17		
C41303C-B.ADA	P	SC	=	17		
C41303E-B.ADA	P	SC	=	20		
C41303F-B.ADA	P	SC	=	19		
C41303G-B.ADA	P	SC	=	19		
C41303I-B.ADA	P	SC	=	20		
C41303J-B.ADA	P	SC	=	19		

C41303K-B.ADA	P	SC = 19	
C41303M-B.ADA	P	SC = 32	
C41303N-B.ADA	P	SC = 31	
C41303O-B.ADA	P	SC = 31	
C41303Q-B.ADA	P	SC = 34	
C41303R-B.ADA	P	SC = 33	
C41303S-B.ADA	P	SC = 33	
C41303U-B.ADA	P	SC = 34	
C41303V-B.ADA	P	SC = 33	
C41303W-B.ADA	P	SC = 33	
C41304A-B.ADA	P	SC = 53	
C41306A-B.ADA	P	SC = 18	
C41306B-B.ADA	P	SC = 32	
C41306C-B.ADA	P	SC = 32	
B44001A.ADA	P	SC = 62	EC = 17
B44002A-B.ADA	P	SC = 59	EC = 13
B44002B-B.ADA	P	SC = 23	EC = 5
B44002C.ADA	P	SC = 4	EC = 1
C45101A.ADA	P	SC = 56	
C45101B.ADA	P	SC = 35	
C45101C.ADA	P	SC = 26	
C45101E.ADA	P	SC = 35	
C45101G.ADA	P	SC = 55	
C45101H.ADA	P	SC = 34	
C45101I.ADA	P	SC = 23	
B45102A-AB.ADA	P	SC = 38	EC = 18
C45103A-AB.ADA	P	SC = 75	
C45103B-AB.ADA	P	SC = 35	
C45103C-AB.ADA	P	SC = 40	
C45104A.ADA	P	SC = 11	
C45105A-AB.ADA	P	SC = 18	
C45105B-B.ADA	P	SC = 28	
C45106A.ADA	P	SC = 31	
C45201A.ADA	P	SC = 109	
C45201B.ADA	P	SC = 102	
C45202A-AB.ADA	P	SC = 14	
B45203A.ADA	P	SC = 17	EC = 6
B45203B-AB.ADA	P	SC = 17	EC = 6
B45205A-AB.ADA	P	SC = 29	EC = 12
B45206A-AB.ADA	P	SC = 65	EC = 22
B45206B-B.ADA	P	SC = 9	EC = 3
B45207A-AB.ADA	P	SC = 14	EC = 2
B45207B-B.ADA	P	SC = 37	EC = 6
B45207C-B.ADA	P	SC = 41	EC = 6
B45207D-B.ADA	P	SC = 49	EC = 6
B45207G-B.ADA	P	SC = 15	EC = 3
B45207H-B.ADA	P	SC = 31	EC = 6
B45207I-B.ADA	P	SC = 35	EC = 6
B45207J-B.ADA	P	SC = 41	EC = 6
B45207M-AB.ADA	P	SC = 12	EC = 2
B45207N-AB.ADA	P	SC = 26	EC = 4
B45207O-AB.ADA	P	SC = 29	EC = 4

B45207P-B.ADA	P	SC = 31	EC = 4
B45207S-AB.ADA	P	SC = 14	EC = 2
B45207T-AB.ADA	P	SC = 29	EC = 4
B45207U-AB.ADA	P	SC = 32	EC = 4
B45207V-B.ADA	P	SC = 34	EC = 4
B45208A-AB.ADA	P	SC = 27	EC = 2
B45208B-B.ADA	P	SC = 34	EC = 3
B45208C-B.ADA	P	SC = 32	EC = 4
B45208G-AB.ADA	P	SC = 25	EC = 2
B45208H-B.ADA	P	SC = 29	EC = 3
B45208I-B.ADA	P	SC = 34	EC = 4
B45208M-AB.ADA	P	SC = 20	EC = 2
B45208N-AB.ADA	P	SC = 21	EC = 2
B45208S-AB.ADA	P	SC = 22	EC = 2
B45208T-AB.ADA	P	SC = 36	EC = 4
C45210A.ADA	P	SC = 85	
C45220A.ADA	P	SC = 102	
C45220B.ADA	P	SC = 192	
C45220C.ADA	P	SC = 107	
C45220D.ADA	P	SC = 197	
C45220E-B.ADA	P	SC = 13	
C45241A-B.DEP	P	SC = 52	
C45241B-B.DEP	P	SC = 52	
B45261A-AB.ADA	P	SC = 23	EC = 6
B45261B-AB.ADA	P	SC = 26	EC = 6
B45261C-AB.ADA	P	SC = 9	EC = 2
B45261D-AB.ADA	P	SC = 8	EC = 2
C45274A-AB.ADA	P	SC = 67	
C45274B-AB.ADA	P	SC = 70	
C45274C-AB.ADA	P	SC = 53	
C45321A-B.DEP	P	SC = 117	
C45321B-B.DEP	P	SC = 117	
C45345A-AB.ADA	P	SC = 29	
C45345B-AB.ADA	P	SC = 22	
C45401A.ADA	P	SC = 42	
C45401B.ADA	W		
B45402A.ADA	P	SC = 29	EC = 12
C45421A-B.DEP	P	SC = 22	
C45421B-B.DEP	P	SC = 22	
C45424A-B.DEP	P	SC = 31	
C45424B-B.DEP	P	SC = 31	
C45521A-B.DEP	P	SC = 188	
C45521B-B.DEP	P	SC = 188	
B45522A.ADA	P	SC = 9	EC = 4
B45533A-AB.ADA	P	SC = 7	EC = 2
C45621A.DEP	P	SC = 53	
C45621B.DEP	P	SC = 53	
B48001A-B.ADA	P	SC = 71	EC = 7
B48001B-B.ADA	P	SC = 51	EC = 3
B48001C-AB.ADA	P	SC = 22	EC = 5
B48001D-B.ADA	P	SC = 51	EC = 3
B48002A-B.ADA	P	SC = 26	EC = 6

B48002B-AB.ADA	P	SC =	17	EC =	2	
B48002C-B.ADA	PS	SC =	34	EC =	9	
B48002D-B.ADA	P	SC =	20	EC =	4	
B48002E-AB.ADA	PS	SC =	46	EC =	10	
B48002F-AB.ADA	P	SC =	33	EC =	6	
B48002G-AB.ADA	PS	SC =	46	EC =	6	
B48002I-B.ADA	PS	SC =	24	EC =	4	
B48002J-AB.ADA	W					
C48003A-B.ADA	P	SC =	28			
C48003B-B.ADA	P	SC =	29			
C48003C-B.ADA	P	SC =	23			
C48003D-B.ADA	P	SC =	26			
C48003E-B.ADA	P	SC =	32			
C48003F.ADA	P	SC =	16			
C48003G-B.ADA	P	SC =	24			
C48004A-B.ADA	P	SC =	87	CT = 1:30	ET = 2.17	
C48005A-B.ADA	P	SC =	17			
C48005B-B.ADA	P	SC =	45			
C48005C-AB.ADA	P	SC =	31			
C48005D-AB.ADA	P	SC =	15			
C4A001A.ADA	P	SC =	49			
C4A002A.ADA	NA	SC =	14			
D4A002B.ADA	NA	SC =	14			
C4A003A.ADA	P	SC =	14			
C4A004A.ADA	NA	SC =	16			
D4A004B.ADA	NA	SC =	24			
B4A006A-B.ADA	P	SC =	4	EC =	1	
C4A011A.ADA	P	SC =	57			
C4A013A.ADA	P	SC =	14			
B4A016A.ADA	P	SC =	4	EC =	2	
B51001A.ADA	PS	SC =	29	EC =	6	
C51002A.ADA	P	SC =	28			
B51003A.ADA	PS	SC =	15	EC =	6	
C52001A-B.ADA	P	SC =	92			
C52001B.ADA	P	SC =	21			
C52001C.ADA	P	SC =	15			
B52002A-B.ADA	P	SC =	18	EC =	6	
B52002B.ADA	P	SC =	16	EC =	9	
B52002C.ADA	P	SC =	26	EC =	8	
B52002D-AB.ADA	P	SC =	3	EC =	1	
B52002E-AB.ADA	P	SC =	5	EC =	2	
B52002F-B.ADA	P	SC =	5	EC =	1	
B52002G-AB.ADA	P	SC =	5	EC =	1	
B52003A.ADA	P	SC =	7	EC =	3	
B52004A-B.ADA	P	SC =	41	EC =	23	
B52004B.ADA	P	SC =	19	EC =	11	
B52004C.ADA	P	SC =	16	EC =	9	
B52004D.DEP	NA	SC =	10	EC =	3	
B52004E.DEP	NA	SC =	10	EC =	3	
C52005A.ADA	P	SC =	47			
C52005B.ADA	P	SC =	27			
C52005C.ADA	P	SC =	17			

C52005D.ADA	P	SC = 53	
C52005E.ADA	P	SC = 39	
C52005F.ADA	P	SC = 23	
B52006A.ADA	P	SC = 6	EC = 3
C52007A-B.ADA	W		
C52008A.ADA	P	SC = 17	
C52008B-B.ADA	P	SC = 32	
C52009A-B.ADA	P	SC = 18	
C52009B-B.ADA	P	SC = 18	
C52010A.ADA	P	SC = 69	
C52011A-B.ADA	P	SC = 50	
C52011B-AB.ADA	P	SC = 55	
C52102A-AB.ADA	P	SC = 95	
C52102B-AB.ADA	P	SC = 104	
C52103A.ADA	P	SC = 56	
C52103B.ADA	P	SC = 20	
C52103C.ADA	P	SC = 28	
C52103F.ADA	P	SC = 45	
C52103G.ADA	P	SC = 21	
C52103H.ADA	P	SC = 28	
C52103K.ADA	P	SC = 56	
C52103L.ADA	P	SC = 20	
C52103M.ADA	P	SC = 28	
C52103P.ADA	P	SC = 45	
C52103Q-AB.ADA	P	SC = 21	
C52103R-AB.ADA	P	SC = 28	
C52103X-AB.ADA	P	SC = 28	
C52103Y.ADA	W		
C52104A.ADA	P	SC = 56	
C52104B.ADA	P	SC = 23	
C52104C.ADA	P	SC = 30	
C52104F-AB.ADA	P	SC = 44	
C52104G.ADA	P	SC = 23	
C52104H.ADA	P	SC = 31	
C52104K.ADA	P	SC = 56	
C52104L.ADA	P	SC = 23	
C52104M.ADA	P	SC = 30	
C52104P-AB.ADA	P	SC = 44	
C52104Q.ADA	P	SC = 23	
C52104R.ADA	P	SC = 31	
C52104X-B.ADA	P	SC = 25	
C52104Y.ADA	P	SC = 21	
B53001A-AB.ADA	P	SC = 20	EC = 1
B53001B-AB.ADA	P	SC = 10	EC = 1
B53002A-AB.ADA	P	SC = 9	EC = 1
B53002B-AB.ADA	P	SC = 11	EC = 1
B53003A.ADA	P	SC = 17	EC = 4
B53004A-AB.ADA	P	SC = 36	EC = 11
C53004B-B.ADA	P	SC = 21	
C53005A.ADA	P	SC = 79	
C53005B.ADA	P	SC = 79	
C53006A.ADA	P	SC = 57	

C53006B.ADA	P	SC = 57	
C53007A.ADA	P	SC = 68	
C53008A.ADA	P	SC = 66	
B53009A.ADA	PS	SC = 20	EC = 3
B54A01A-AB.ADA	P	SC = 4	EC = 1
B54A01B-AB.ADA	P	SC = 4	EC = 1
B54A01C-AB.ADA	P	SC = 7	EC = 1
B54A01D-AB.ADA	P	SC = 6	EC = 1
B54A01E-AB.ADA	P	SC = 7	EC = 1
B54A01F-AB.ADA	P	SC = 4	EC = 1
B54A01G-AB.ADA	P	SC = 4	EC = 1
B54A01H-AB.ADA	P	SC = 4	EC = 1
B54A01I-AB.ADA	P	SC = 5	EC = 1
B54A01J-AB.ADA	P	SC = 4	EC = 1
B54A01K-AB.ADA	P	SC = 6	EC = 1
B54A01L-AB.ADA	P	SC = 20	EC = 6
C54A03A.ADA	P	SC = 48	
C54A04A-AB.ADA	P	SC = 21	
B54A05A.ADA	P	SC = 20	EC = 3
B54A05B.ADA	P	SC = 5	EC = 1
C54A06A-AB.ADA	P	SC = 15	
C54A07A-AB.ADA	P	SC = 26	
B54A08A-B.ADA	P	SC = 14	EC = 2
B54A20A.ADA	PS	SC = 63	EC = 21
B54A21A-AB.ADA	P	SC = 24	EC = 6
C54A22A-AB.ADA	P	SC = 15	
C54A23A-B.ADA	P	SC = 12	
C54A24A.ADA	P	SC = 21	
C54A24B.ADA	P	SC = 13	
B54A25A-B.ADA	PS	SC = 13	EC = 5
C54A26A.ADA	P	SC = 19	
C54A27A-AB.ADA	W		
B54A27B-AB.ADA	P	SC = 6	EC = 1
B54A27C-AB.ADA	P	SC = 6	EC = 1
B54A27D-AB.ADA	P	SC = 6	EC = 1
C54A41A.ADA	P	SC = 42	
C54A42A.ADA	P	SC = 93	
C54A42B.ADA	P	SC = 93	
C54A42C.ADA	P	SC = 53	
C54A42D.ADA	P	SC = 41	
C54A42E.ADA	P	SC = 53	
C54A42F.ADA	P	SC = 57	
C54A42G.ADA	P	SC = 53	
A54B01A-B.ADA	P	SC = 37	
B54B01B-B.TST	P	SC = 29	EC = 6
B54B01C-B.ADA	P	SC = 15	EC = 2
A54B02A-B.ADA	P	SC = 80	
B54B02B-B.ADA	P	SC = 76	EC = 17
B54B02C-B.ADA	P	SC = 26	EC = 3
B54B02D-B.ADA	P	SC = 41	EC = 5
B54B04A-AB.ADA	P	SC = 26	EC = 4
B54B04B-AB.ADA	P	SC = 39	EC = 5

B54B05A-AB.ADA	P	SC =	25	EC =	6
B55A01A-AB.ADA	PS	SC =	43	EC =	14
B55A01B-AB.ADA	P	SC =	7	EC =	1
B55A01C-AB.ADA	P	SC =	7	EC =	1
B55A01D-AB.ADA	P	SC =	7	EC =	1
B55A01E-AB.ADA	P	SC =	7	EC =	1
B55A01F-AB.ADA	P	SC =	4	EC =	1
B55A01G-AB.ADA	P	SC =	4	EC =	1
B55A01H-AB.ADA	P	SC =	4	EC =	1
B55A01I-AB.ADA	P	SC =	4	EC =	1
B55A01J-AB.ADA	P	SC =	4	EC =	1
B55A01K-AB.ADA	P	SC =	4	EC =	1
B55A01L-AB.ADA	P	SC =	4	EC =	1
B55A01M-AB.ADA	P	SC =	5	EC =	1
B55A01N-AB.ADA	P	SC =	5	EC =	1
B55A01O-AB.ADA	P	SC =	5	EC =	1
B55A01P-AB.ADA	P	SC =	4	EC =	1
B55A01Q-AB.ADA	P	SC =	4	EC =	1
B55A01R-AB.ADA	P	SC =	4	EC =	1
B55A01S-AB.ADA	P	SC =	4	EC =	1
B55A01T-AB.ADA	P	SC =	7	EC =	1
B55A01U-AB.ADA	P	SC =	7	EC =	1
B55A01V-AB.ADA	P	SC =	7	EC =	1
D55A03A-AB.ADA	P	SC =	21		
D55A03B-AB.ADA	P	SC =	24		
D55A03C-AB.ADA	P	SC =	32		
D55A03D-AB.ADA	P	SC =	34		
D55A03E-AB.ADA	NA	SC =	53		
D55A03F-AB.ADA	NA	SC =	56		
D55A03G-AB.ADA	NA	SC =	96		
D55A03H-AB.ADA	NA	SC =	98		
B55B01A-AB.ADA	P	SC =	9	EC =	3
C55B03A-AB.ADA	P	SC =	16		
C55B04A-AB.ADA	P	SC =	27		
C55B05A-AB.ADA	P	SC =	114		
C55B06A.ADA	P	SC =	87		
C55B06B.ADA	P	SC =	42		
C55B07A-AB.DEP	NA	SC =	40		
C55B07B-AB.DEP	NA	SC =	40		
C55B08A-B.ADA	P	SC =	29		
C55B09A-AB.ADA	P	SC =	33		
B55B09B-AB.ADA	P	SC =	26	EC =	12
B55B09C-AB.DEP	NA	SC =	26	EC =	12
B55B09D-AB.DEP	NA	SC =	26	EC =	12
A55B12A-AB.ADA	P	SC =	45		
B55B12B-B.ADA	P	SC =	40	EC =	7
B55B12C-AB.ADA	P	SC =	45	EC =	7
A55B13A-AB.ADA	P	SC =	34		
A55B14A-AB.ADA	W				
C55B15A-B.ADA	P	SC =	73		
C55B16A-AB.DEP	NA	SC =	23		
B55B18A-B.ADA	P	SC =	7	EC =	2

C55C01A-B.ADA	P	SC =	25	
C55C02A.ADA	P	SC =	9	
C55C02B-AB.ADA	P	SC =	16	
C55C03A-AB.ADA	P	SC =	87	
C55C03B-AB.ADA	P	SC =	87	
C55D01A-AB.ADA	P	SC =	46	
B56001A-AB.ADA	PS	SC =	62	EC = 15
D56001B-AB.ADA	NA	SC =	75	
C56002A.ADA	P	SC =	40	
B57001A.ADA	PS	SC =	21	EC = 5
B57001B-B.ADA	PS	SC =	45	EC = 6
B57001C.ADA	PS	SC =	28	EC = 5
B57001D.ADA	PS	SC =	38	EC = 10
C57002A.ADA	P	SC =	44	
C57003A.ADA	P	SC =	98	
C57004A.ADA	P	SC =	56	
C57004B.ADA	P	SC =	56	
C57004C-B.ADA	P	SC =	27	
B58001A.ADA	P	SC =	11	EC = 2
B58002A-B.ADA	PS	SC =	11	EC = 2
B58003A-B.ADA	P	SC =	10	EC = 1
C58004A.ADA	P	SC =	26	
C58004B.ADA	P	SC =	20	
C58004C.ADA	W			
C58005A-AB.ADA	P	SC =	38	
C58006A-AB.ADA	P	SC =	32	
B59001A.ADA	PS	SC =	43	EC = 27
C59001B.ADA	P	SC =	39	
B59001C.ADA	PS	SC =	34	EC = 21
B59001D.ADA	P	SC =	42	EC = 16
B59001E.ADA	P	SC =	28	EC = 18
B59001F.ADA	P	SC =	51	EC = 25
B59001G-AB.ADA	P	SC =	14	EC = 2
C59002A.ADA	P	SC =	30	
C59002B.ADA	P	SC =	55	
C59002C-B.ADA	P	SC =	52	
B59002D-AB.ADA	P	SC =	16	EC = 2
B61001A.ADA	PS	SC =	26	EC = 13
B61003A.ADA	P	SC =	7	EC = 1
C61003B.ADA	P	SC =	28	
B61005A.ADA	W			
B61005B.ADA	W			
C61008A-B.ADA	P	SC =	67	
C61009A-B.ADA	P	SC =	52	
C61010A-AB.ADA	P	SC =	87	
B62001A.ADA	P	SC =	45	EC = 18
B62001B-AB.ADA	P	SC =	5	EC = 2
B62001C-AB.ADA	P	SC =	3	EC = 2
B62001D-AB.ADA	P	SC =	5	EC = 2
C62002A-B.ADA	P	SC =	67	
C62003A-B.ADA	P	SC =	71	
C62004A.ADA	P	SC =	15	

B63001A.ADA	P	SC = 10	EC = 4
C63004A.ADA	W		
B64001A-B.ADA	P	SC = 29	EC = 5
B64002A.ADA	P	SC = 27	EC = 9
C64002B-B.ADA	P	SC = 15	
B64003A.ADA	P	SC = 26	EC = 9
B64004A.ADA	P	SC = 29	EC = 10
C64004B.ADA	P	SC = 43	
B64005A-AB.ADA	P	SC = 73	EC = 16
B64006A.ADA	P	SC = 10	EC = 2
C64007A.ADA	P	SC = 18	
B64101A-B.ADA	P	SC = 166	EC = 50
C64104A-AB.ADA	P	SC = 53	
C64104B-AB.ADA	P	SC = 46	
C64104C-AB.ADA	P	SC = 58	
C64104D-AB.ADA	P	SC = 24	
C64104E-AB.ADA	P	SC = 17	
C64104F-AB.ADA	P	SC = 16	
C64104G-AB.ADA	P	SC = 24	
C64104H.ADA	P	SC = 28	
C64104I.ADA	P	SC = 18	
C64104J.ADA	P	SC = 15	
C64104K-AB.ADA	P	SC = 19	
C64104L-AB.ADA	P	SC = 33	
C64104M-AB.ADA	P	SC = 23	
C64105A.ADA	P	SC = 15	
C64105B-AB.ADA	P	SC = 32	
C64105C-AB.ADA	P	SC = 33	
C64105D-AB.ADA	P	SC = 31	
C64106A-B.ADA	W		
C64106B-B.ADA	P	SC = 83	
C64106C-B.ADA	P	SC = 115	
C64106D-B.ADA	P	SC = 97	
C64107A-B.ADA	P	SC = 25	
C64108A-B.ADA	P	SC = 74	
B65001A.ADA	P	SC = 13	EC = 4
B66001A-B.ADA	P	SC = 67	EC = 12
B66001C.ADA	P	SC = 31	EC = 6
C66002A-B.ADA	P	SC = 29	
C66002C.ADA	P	SC = 27	
C66002D.ADA	P	SC = 23	
C66002E-AB.ADA	P	SC = 21	
C66002F.ADA	P	SC = 20	
C66002G-B.ADA	P	SC = 19	
B67001A-B.ADA	P	SC = 98	EC = 41
B67001B-AB.ADA	P	SC = 75	EC = 11
C67002A.ADA	P	SC = 145	
C67003A-B.ADA	P	SC = 82	
C67003B.ADA	P	SC = 70	
C67003C-AB.ADA	P	SC = 42	
C67003D-B.ADA	P	SC = 54	
C67003E-AB.ADA	P	SC = 22	

B71001C.ADA	P	SC = 6	EC = 1
A72001A-AB.ADA	P	SC = 14	
C72001B-AB.ADA	P	SC = 29	
B73001A.ADA	P	SC = 55	EC = 6
B73001B-AB.ADA	P	SC = 34	EC = 6
B73001C.ADA	P	SC = 19	EC = 2
B73006A.ADA	P	SC = 10	EC = 2
B74001A.ADA	W		
B74002A-B.ADA	P	SC = 79	EC = 21
A74004A.ADA	P	SC = 95	
A74004B.ADA	P	SC = 93	
A74004C-AB.ADA	P	SC = 85	
A74006A-AB.ADA	P	SC = 64	
C74007A.ADA	P	SC = 76	
C74007B-AB.ADA	P	SC = 60	
C74008A.ADA	P	SC = 45	
C74009A-B.ADA	P	SC = 29	
B74101A-B.ADA	P	SC = 102	EC = 16
B74102B-B.ADA	P	SC = 40	EC = 18
C74203B-B.ADA	P	SC = 41	
B74301B-AB.ADA	W		
B74301C-AB.ADA	W		
B83A01A.ADA	PS	SC = 16	EC = 6
B83A01B.ADA	W		
B83A01C.ADA	PS	SC = 21	EC = 5
A83A02A.ADA	P	SC = 35	
A83A02B.ADA	P	SC = 30	
A83A05A-AB.ADA	P	SC = 34	
B83A06A.ADA	W		
B83A06B.ADA	P	SC = 37	EC = 15
B83A06H.ADA	W		
B83B01A-AB.ADA	P	SC = 5	EC = 1
C83B02A.ADA	P	SC = 25	
C83B02B.ADA	P	SC = 31	
B83B02C.ADA	P	SC = 10	EC = 2
B83C01A-AB.ADA	P	SC = 38	EC = 15
C83C01B.ADA	P	SC = 37	
A83C01C.ADA	P	SC = 20	
A83C01D.ADA	P	SC = 24	
A83C01E.ADA	P	SC = 33	
A83C01F.ADA	P	SC = 42	
A83C01G.ADA	P	SC = 52	
A83C01H.ADA	P	SC = 22	
A83C01I.ADA	P	SC = 26	
A83C01J.ADA	P	SC = 18	
B83C02A.ADA	P	SC = 27	EC = 8
C83E02A.ADA	P	SC = 29	
C83E02B.ADA	P	SC = 16	
B83E02C-B.ADA	P	SC = 12	EC = 2
C83E03A.ADA	P	SC = 23	
C83E04A.ADA	P	SC = 37	
C83F01A.ADA	P	SC = 24	

C83F01B.ADA	P	SC = 30		
C83F01C0.ADA	PC	SC = 10		
C83F01C1.ADA	PC	SC = 8		
C83F01C2M.ADA	P	SC = 8		
C83F01DOM.ADA	P	SC = 22		
C83F01D1.ADA	PC	SC = 7		
B83F02A.ADA	P	SC = 45	EC = 19	
B83F02B.ADA	P	SC = 22	EC = 13	
C83F03A.ADA	P	SC = 40		
C83F03B.ADA	P	SC = 66		
C83F03C0.ADA	PC	SC = 7		
C83F03C1.ADA	PC	SC = 27		
C83F03C2M.ADA	P	SC = 8		
C83F03DOM.ADA	P	SC = 18		
C83F03D1.ADA	PC	SC = 41		
B84001A-AB.ADA	P	SC = 28	EC = 10	
B86001A1.ADA	PC	SC = 3	EC = 0	
B86001A2M.ADA	P	SC = 3	EC = 1	
B86001BOM-B.ADA	P	SC = 4	EC = 0	
B86001BA-B.ADA	P	SC = 3	EC = 1	
B86001BB-B.ADA	P	SC = 3	EC = 1	
B86001BC-B.ADA	P	SC = 3	EC = 1	
B86001BD-B.ADA	P	SC = 3	EC = 1	
B86001BE-B.ADA	P	SC = 3	EC = 1	
B86001BF-B.ADA	P	SC = 3	EC = 1	
B86001BG-B.ADA	P	SC = 3	EC = 1	
B86001BH-B.ADA	P	SC = 3	EC = 1	
B86001BI-B.ADA	P	SC = 3	EC = 1	
B86001BJ-B.ADA	P	SC = 3	EC = 1	
B86001BK-B.ADA	P	SC = 3	EC = 1	
B86001BL-B.ADA	P	SC = 3	EC = 1	
B86001BM-B.ADA	P	SC = 3	EC = 1	
B86001BO-B.ADA	P	SC = 3	EC = 1	
B86001BU-B.ADA	P	SC = 3	EC = 1	
B86001BV-B.ADA	P	SC = 2	EC = 1	
B86001BW-B.ADA	P	SC = 2	EC = 1	
B86001BX-B.ADA	P	SC = 2	EC = 1	
B86001COM-AB.DEP	P	SC = 4	EC = 0	
B86001CP-AB.DEP	NA	SC = 3	EC = 1	
B86001CQ-AB.DEP	NA	SC = 3	EC = 1	
B86001CR-AB.DEP	NA	SC = 3	EC = 1	
B86001CS-AB.DEP	NA	SC = 3	EC = 1	
B86001DOM-AB.TST	PC	SC = 4	EC = 0	
B86001DT-AB.TST	NA	SC = 3	EC = 1	
C86001E-B.ADA	P	SC = 41		
C86002A0.ADA	PC	SC = 3		
C86002A1.ADA	PC	SC = 5		
C86002A2M.ADA	P	SC = 29		
C86002B1.ADA	PC	SC = 4		
C86002B2M.ADA	P	SC = 27		
C86003A-B.ADA	P	SC = 34		
B91001A-AB.ADA	P	SC = 6	EC = 1	

B91001B-AB.ADA	P	SC = 5	EC = 1
B91001C-AB.ADA	P	SC = 3	EC = 1
B91001D-AB.ADA	P	SC = 7	EC = 3
B91001E-AB.ADA	P	SC = 7	EC = 3
B91001F-AB.ADA	P	SC = 10	EC = 4
B91001G-B.ADA	P	SC = 7	EC = 1
B91002A.ADA	W		
C92002A.ADA	P	SC = 19	
C92003A.ADA	P	SC = 18	
C93001A-B.ADA	P	SC = 75	
C93002A-B.ADA	P	SC = 76	
C93003A-B.ADA	P	SC = 105	
C94001A-B.ADA	P	SC = 52	
C94002A-B.ADA	P	SC = 74	
C94002B-B.ADA	P	SC = 79	
C94003A-B.ADA	P	SC = 65	
C94004A-B.ADA	P	SC = 36	
C94005A-B.ADA	P	SC = 29	
C94005B-B.ADA	P	SC = 57	
C94006A-B.ADA	P	SC = 82	
C94007A-B.ADA	P	SC = 73	
C94007B-B.ADA	P	SC = 83	
B95001A.ADA	P	SC = 49	EC = 18
B95001B-AB.ADA	P	SC = 28	EC = 12
B95002A.ADA	P	SC = 25	EC = 6
B95004A-AB.ADA	P	SC = 27	EC = 6
B95004B-AB.ADA	P	SC = 38	EC = 8
A95005A.ADA	P	SC = 21	
B95006A.ADA	PS	SC = 22	EC = 6
B95006B.ADA	PS	SC = 12	EC = 3
B95007A.ADA	PS	SC = 40	EC = 21
C95008A.ADA	P	SC = 145	
C95009A.ADA	P	SC = 50	
C95009B.ADA	P	SC = 19	
C95010A.ADA	P	SC = 29	
C95011A.ADA	P	SC = 16	
C95012A-B.ADA	P	SC = 38	
C95013A-B.ADA	P	SC = 30	
B97101A-AB.ADA	P	SC = 21	EC = 7
B97101B-AB.ADA	P	SC = 10	EC = 1
B97101C-AB.ADA	P	SC = 11	EC = 1
B97101D-AB.ADA	P	SC = 11	EC = 1
B97101E-AB.ADA	P	SC = 13	EC = 4
B97102A-AB.ADA	P	SC = 29	EC = 13
B97102B-AB.ADA	P	SC = 10	EC = 2
B97102C-AB.ADA	P	SC = 11	EC = 2
B97102D-AB.ADA	P	SC = 12	EC = 2
B97102E-AB.ADA	P	SC = 11	EC = 2
B97102F-AB.ADA	P	SC = 10	EC = 1
B97102G-AB.ADA	P	SC = 10	EC = 1
B97102H-AB.ADA	P	SC = 12	EC = 2
B97102I-AB.ADA	P	SC = 9	EC = 1

B97103A-AB.ADA	P	SC = 19	EC = 3
B97103B-AB.ADA	P	SC = 14	EC = 1
B97103D-AB.ADA	P	SC = 16	EC = 1
B97103E-AB.ADA	P	SC = 13	EC = 3
B97104A-AB.ADA	P	SC = 3	EC = 1
B97104B-AB.ADA	P	SC = 7	EC = 1
B97104C-AB.ADA	P	SC = 11	EC = 1
B97104D-AB.ADA	P	SC = 12	EC = 1
B97104E-AB.ADA	P	SC = 13	EC = 1
B97104F-AB.ADA	P	SC = 15	EC = 1
B97104G-AB.ADA	P	SC = 9	EC = 1
A97106A-AB.ADA	P	SC = 19	
B97107A-AB.ADA	P	SC = 15	EC = 2
B97108A-AB.ADA	P	SC = 12	EC = 1
B97108B-AB.ADA	P	SC = 12	EC = 1
B97109A-AB.ADA	P	SC = 12	EC = 1
B97110A-AB.ADA	P	SC = 17	EC = 1
B97110B-AB.ADA	P	SC = 17	EC = 1
B97111A-AB.ADA	P	SC = 18	EC = 1
C97113A-B.ADA	P	SC = 43	
C97114A-B.ADA	W		
C97115A-B.ADA	W		
C97201A-AB.ADA	P	SC = 38	
C97201D-AB.ADA	P	SC = 20	
C97201E-AB.ADA	P	SC = 22	
C97201G-AB.ADA	P	SC = 35	
C97201H-AB.ADA	P	SC = 35	
C97201X-AB.ADA	P	SC = 37	
C97202A-AB.ADA	P	SC = 30	
C97203A-AB.ADA	P	SC = 25	
C97203B-AB.ADA	P	SC = 28	
C97204A-B.ADA	P	SC = 29	
C97303A-AB.ADA	P	SC = 27	
C97303B-AB.ADA	P	SC = 30	
C97304A-B.ADA	P	SC = 30	
B99001A-AB.ADA	P	SC = 11	EC = 1
B99001B-B.ADA	P	SC = 10	EC = 1
B99002A-B.ADA	P	SC = 16	EC = 2
B99002B-B.ADA	P	SC = 20	EC = 1
B99002C-B.ADA	P	SC = 23	EC = 4
B99003A-AB.ADA	P	SC = 17	EC = 3
B9A001A-AB.ADA	P	SC = 9	EC = 1
B9A001B-AB.ADA	P	SC = 12	EC = 1
C9A003A-B.ADA	P	SC = 23	
C9A004A-B.ADA	P	SC = 23	
C9A005A-B.ADA	P	SC = 66	
C9A006A-B.ADA	P	SC = 51	
C9A007A-B.ADA	P	SC = 87	
CA1002A0-B.ADA	PC	SC = 2	
CA1002A1-B.ADA	PC	SC = 5	
CA1002A2-B.ADA	PC	SC = 4	
CA1002A3M-B.ADA	P	SC = 46	

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CA1002A4-B.ADA    PC  SC =  3
CA1002A5-B.ADA    PC  SC =  2
CA1002A6-B.ADA    PC  SC =  3
CA1002A7-B.ADA    PC  SC =  3
CA1002A8-B.ADA    PC  SC =  4
CA1002A9-B.ADA    PC  SC =  3
CA1003A.ADA       P   SC = 20
CA1003B.ADA       P   SC = 17
CA1004A.ADA       P   SC = 19
CA1005A.ADA       P   SC = 17
CA1006A-AB.ADA    P   SC = 33
CA1008A0.ADA      PC  SC =  3
CA1008A1M.ADA     P   SC =  9
CA1009A0.ADA      PC  SC =  1
CA1009A1.ADA      PC  SC =  2
CA1009A2.ADA      PC  SC =  1
CA1009A3.ADA      PC  SC =  2
CA1009A4M.ADA     P   SC = 11
CA1012A0-B.DEP    PC  SC =  2
CA1012A1-B.DEP    PC  SC =  2
CA1012A2-B.DEP    PC  SC =  2
CA1012A3-B.DEP    PC  SC =  2
CA1012A4M-B.DEP   NA  SC = 15
CA1012B0-B.ADA    PC  SC =  4
CA1012B2-B.ADA    PC  SC =  4
CA1012B4M-B.ADA   P   SC = 15
CA1013A0-AB.ADA   PC  SC =  5
CA1013A1-AB.ADA   PC  SC =  4
CA1013A2-AB.ADA   PC  SC =  4
CA1013A3-AB.ADA   PC  SC =  2
CA1013A4-AB.ADA   PC  SC =  2
CA1013A5-AB.ADA   PC  SC =  2
CA1013A6M-AB.ADA  P   SC = 14
CA1014A0M-AB.ADA  P   SC = 25
CA1014A1-AB.ADA   PC  SC =  2
CA1014A2-AB.ADA   PC  SC =  4
CA1014A3-AB.ADA   PC  SC =  2
CA1016A0.ADA      PC  SC =  2
CA1016A1.ADA      PC  SC =  4
CA1016A2M.ADA     P   SC = 12
CA1020A0-B.ADA    PC  SC =  7
CA1020A1-B.ADA    PC  SC =  5
CA1020A2-B.ADA    PC  SC =  7
CA1020A3-B.ADA    PC  SC =  5
CA1020A4-B.ADA    PC  SC =  8
CA1020A5-B.ADA    PC  SC =  4
CA1020A6-B.ADA    PC  SC =  8
CA1020A7-B.ADA    PC  SC =  4
CA1020A8M-B.ADA   P   SC = 18
BA1020B0-B.ADA    PC  SC =  4    EC = 0
BA1020B1-B.ADA    PC  SC =  2    EC = 0
BA1020B2-B.ADA    PC  SC =  3    EC = 0
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BA1020B3-B.ADA	PC	SC =	4	EC =	0
BA1020B4-B.ADA	PC	SC =	2	EC =	0
BA1020B5-B.ADA	PC	SC =	2	EC =	0
BA1020B6M-B.ADA	P	SC =	7	EC =	2
BA1101A-AB.ADA	P	SC =	6	EC =	2
BA1101B0M.ADA	P	SC =	6	EC =	0
BA1101B1.ADA	PC	SC =	2	EC =	0
BA1101B2.ADA	PC	SC =	3	EC =	1
BA1101B3.ADA	PC	SC =	3	EC =	0
BA1101B4.ADA	PC	SC =	4	EC =	1
BA1101C0.ADA	PC	SC =	2	EC =	0
BA1101C1M.ADA	P	SC =	3	EC =	1
BA1101D.ADA	P	SC =	4	EC =	1
BA1101E.ADA	P	SC =	4	EC =	1
BA1101F0-AB.ADA	W				
BA1101F1M-AB.ADA	W				
BA1101H0-B.ADA	PC	SC =	2	EC =	0
BA1101H1M-B.ADA	P	SC =	4	EC =	1
CA1105A0.ADA	PC	SC =	2		
CA1105A1M.ADA	P	SC =	8		
CA1105B0.ADA	PC	SC =	2		
CA1105B1.ADA	PC	SC =	2		
CA1105B2.ADA	PC	SC =	2		
CA1105B3M.ADA	P	SC =	14		
CA1105B4.ADA	PC	SC =	4		
CA1105B5.ADA	PC	SC =	13		
CA1107A0.ADA	PC	SC =	2		
CA1107A1M.ADA	P	SC =	9		
CA1107A2.ADA	PC	SC =	7		
BA2001A-AB.ADA	P	SC =	10	EC =	3
BA2001B.ADA	P	SC =	4	EC =	2
BA2001C.ADA	P	SC =	6	EC =	2
BA2001D.ADA	P	SC =	3	EC =	1
BA2001E.ADA	P	SC =	8	EC =	2
BA2001F0M.ADA	P	SC =	3	EC =	0
BA2001F1.ADA	PC	SC =	3	EC =	0
BA2001F2.ADA	PC	SC =	2	EC =	1
BA2001G0M.ADA	P	SC =	3	EC =	0
BA2001G1.ADA	PC	SC =	2	EC =	1
CA2001H0-B.ADA	PC	SC =	5		
CA2001H1-B.ADA	PC	SC =	2		
CA2001H2-B.ADA	PC	SC =	4		
CA2001H3M-B.ADA	P	SC =	14		
BA2002A0M.ADA	P	SC =	4	EC =	0
BA2002A1.ADA	PC	SC =	7	EC =	0
BA2002A2.ADA	PC	SC =	7	EC =	3
CA2003A0M.ADA	P	SC =	10		
CA2003A1.ADA	PC	SC =	3		
BA2003B0M.ADA	P	SC =	6	EC =	0
BA2003B1.ADA	PC	SC =	2	EC =	1
CA2004A0M.ADA	P	SC =	11		
CA2004A1.ADA	PC	SC =	3		

CA2004A2.ADA	PC	SC =	7			
CA2007A0M-AB.ADA	P	SC =	17			
CA2007A1-AB.ADA	PC	SC =	3			
CA2007A2-AB.ADA	PC	SC =	3			
CA2007A3-AB.ADA	PC	SC =	3			
CA2008A0M-B.ADA	P	SC =	23			
CA2008A1-B.ADA	PC	SC =	2			
CA2008A2-B.ADA	PC	SC =	2			
BA3001A0M-AB.ADA	P	SC =	2	EC =	0	
BA3001A1-AB.ADA	PC	SC =	2	EC =	1	
BA3001A2-AB.ADA	PC	SC =	2	EC =	1	
BA3001A3-AB.ADA	PC	SC =	2	EC =	1	
BA3001B0M.ADA	P	SC =	2	EC =	0	
BA3001B1.ADA	PC	SC =	2	EC =	1	
BA3001C0M-AB.ADA	P	SC =	3	EC =	0	
BA3001C1-AB.ADA	PC	SC =	3	EC =	1	
BA3001D0M.ADA	P	SC =	4	EC =	1	
BA3001D1.ADA	PC	SC =	3	EC =	1	
BA3001E0M-AB.ADA	P	SC =	5	EC =	0	
BA3001E1-AB.ADA	PC	SC =	2	EC =	1	
BA3001E2-AB.ADA	PC	SC =	2	EC =	1	
BA3001E3-AB.ADA	PC	SC =	2	EC =	1	
BA3001F0M-AB.ADA	P	SC =	6	EC =	0	
BA3001F1-AB.ADA	PC	SC =	3	EC =	1	
BA3001F2-AB.ADA	PC	SC =	3	EC =	1	
BA3001F3-AB.ADA	PC	SC =	3	EC =	1	
CA3002A0-B.ADA	PC	SC =	5			
CA3002A1-B.ADA	PC	SC =	3			
CA3002A2M-B.ADA	P	SC =	9			
CA3002A3-B.ADA	PC	SC =	3			
LA3004A0-AB.DEP	PC	SC =	3			
LA3004A1-AB.DEP	PC	SC =	3			
LA3004A2-AB.DEP	PC	SC =	4			
LA3004A3-AB.DEP	PC	SC =	5			
LA3004A4-AB.DEP	PC	SC =	5			
LA3004A5-AB.DEP	PC	SC =	3			
LA3004A6M-AB.DEP	NA	SC =	7			
LA3004B0-B.DEP	PC	SC =	2			
LA3004B1-B.DEP	PC	SC =	2			
LA3004B2-B.DEP	PC	SC =	4			
LA3004B3-B.DEP	PC	SC =	3			
LA3004B4-B.DEP	PC	SC =	7			
LA3004B5-B.DEP	PC	SC =	2			
LA3004B6M-B.DEP	NA	SC =	7			
LA3006A0-AB.ADA	PC	SC =	2			
LA3006A1-AB.ADA	PC	SC =	4			
LA3006A2-AB.ADA	PC	SC =	3			
LA3006A3-AB.ADA	PC	SC =	3			
LA3006A4-AB.ADA	PC	SC =	5			
LA3006A5-AB.ADA	PC	SC =	2			
LA3006A6M-AB.ADA	P	SC =	7			
LA3006B0.ADA	PC	SC =	4			

LA3006B1.ADA	PC	SC	=	3
LA3006B2.ADA	PC	SC	=	3
LA3006B3.ADA	PC	SC	=	3
LA3006B4M.ADA	P	SC	=	6
CA3006C0-B.ADA	PC	SC	=	2
CA3006C1-B.ADA	PC	SC	=	2
CA3006C2-B.ADA	PC	SC	=	3
CA3006C3-B.ADA	PC	SC	=	4
CA3006C4-B.ADA	PC	SC	=	3
CA3006C5M-B.ADA	P	SC	=	7
LA3007A0.ADA	PC	SC	=	2
LA3007A1.ADA	PC	SC	=	4
LA3007A2.ADA	PC	SC	=	2
LA3007A3.ADA	PC	SC	=	4
LA3007A4M.ADA	P	SC	=	6
LA3007B0-B.ADA	PC	SC	=	1
LA3007B1-B.ADA	PC	SC	=	5
LA3007B2-B.ADA	PC	SC	=	4
LA3007B3-B.ADA	PC	SC	=	5
LA3007B4-B.ADA	PC	SC	=	3
LA3007B5-B.ADA	PC	SC	=	2
LA3007B6-B.ADA	PC	SC	=	1
LA3007B7-B.ADA	PC	SC	=	4
LA3007B8M-B.ADA	P	SC	=	7
LA3008A0.ADA	PC	SC	=	4
LA3008A1.ADA	PC	SC	=	2
LA3008A2.ADA	PC	SC	=	2
LA3008A3.ADA	PC	SC	=	5
LA3008A4.ADA	PC	SC	=	2
LA3008A5M.ADA	P	SC	=	6
LA3008B0.ADA	PC	SC	=	4
LA3008B1.ADA	PC	SC	=	5
LA3008B2.ADA	PC	SC	=	3
LA3008B3.ADA	PC	SC	=	3
LA3008B4.ADA	PC	SC	=	6
LA3008B5.ADA	PC	SC	=	3
LA3008B6M.ADA	P	SC	=	6
LA5001A0-B.ADA	PC	SC	=	2
LA5001A1-B.ADA	PC	SC	=	2
LA5001A2-B.ADA	PC	SC	=	2
LA5001A3-B.ADA	PC	SC	=	6
LA5001A4-B.ADA	PC	SC	=	6
LA5001A5-B.ADA	PC	SC	=	5
LA5001A6M-B.ADA	P	SC	=	7
CA5002A-B.ADA	P	SC	=	36
CA5002B0-B.ADA	PC	SC	=	3
CA5002B1-B.ADA	PC	SC	=	1
CA5002B2-B.ADA	PC	SC	=	2
CA5002B3-B.ADA	PC	SC	=	2
CA5002B4-B.ADA	PC	SC	=	6
CA5002B5-B.ADA	PC	SC	=	8
CA5002B6-B.ADA	PC	SC	=	7

CA5002B7M-B.ADA	P	SC	=	7		
CA5003A0.ADA	PC	SC	=	12		
CA5003A1.ADA	PC	SC	=	4		
CA5003A2.ADA	PC	SC	=	4		
CA5003A3.ADA	PC	SC	=	4		
CA5003A4.ADA	PC	SC	=	4		
CA5003A5.ADA	PC	SC	=	4		
CA5003A6M.ADA	P	SC	=	7		
LA5004A0-B.ADA	PC	SC	=	2		
LA5004A1-B.ADA	PC	SC	=	2		
LA5004A2-B.ADA	PC	SC	=	2		
LA5004A3-B.ADA	PC	SC	=	6		
LA5004A4-B.ADA	PC	SC	=	6		
LA5004A5-B.ADA	PC	SC	=	6		
LA5004A6M-B.ADA	P	SC	=	7		
CB1001A-B.ADA	P	SC	=	33		
CB1002A.ADA	P	SC	=	10		
CB1003A.ADA	P	SC	=	25		
CB1004A.ADA	P	SC	=	26		
BB2001A.ADA	W					
BB2002A.ADA	P	SC	=	17	EC	= 6
BB2003A-AB.ADA	P	SC	=	7	EC	= 1
BB2003B-AB.ADA	P	SC	=	8	EC	= 1
BB2003C-AB.ADA	P	SC	=	5	EC	= 1
CB2004A-B.ADA	P	SC	=	71		
CB2005A-B.ADA	P	SC	=	26		
CB2006A.ADA	P	SC	=	21		
CB2007A.ADA	P	SC	=	40		
BB3001A-AB.ADA	P	SC	=	37	EC	= 9
BB3002A.ADA	P	SC	=	14	EC	= 3
CB3003A-B.ADA	P	SC	=	64		
CB3004A.ADA	P	SC	=	52		
BB3005A.ADA	P	SC	=	4	EC	= 2
CB4001A.ADA	P	SC	=	60		
CB4002A.ADA	P	SC	=	50		
CB4003A-AB.ADA	P	SC	=	35		
CB4004A-B.ADA	P	SC	=	26		
CB4005A.ADA	P	SC	=	19		
CB4006A-B.ADA	P	SC	=	26		
CB4008A.ADA	P	SC	=	66		
CB4009A-AB.ADA	P	SC	=	51		
BC1001A-B.ADA	P	SC	=	35	EC	= 9
BC1002A-AB.ADA	PS	SC	=	46	EC	= 14
CC1004A-AB.ADA	P	SC	=	29		
CC1007A-B.ADA	W					
BC1008A-AB.ADA	P	SC	=	9	EC	= 3
BC1009A-AB.ADA	P	SC	=	33	EC	= 11
CC1010A-AB.ADA	P	SC	=	18		
CC1010B-AB.ADA	P	SC	=	19		
BC1011A-AB.ADA	P	SC	=	9	EC	= 1
BC1011B-AB.ADA	P	SC	=	29	EC	= 4
BC1012A-AB.ADA	P	SC	=	10	EC	= 2

BC1013A-B.ADA	P	SC = 47	EC = 12
BC1101A-AB.ADA	P	SC = 7	EC = 1
BC1102A-B.ADA	P	SC = 26	EC = 8
BC1103A-AB.ADA	P	SC = 72	EC = 29
BC1104A-B.ADA	P	SC = 16	EC = 3
BC1104B-B.ADA	P	SC = 15	EC = 4
BC1106A-AB.ADA	P	SC = 8	EC = 1
BC1107A-B.ADA	P	SC = 29	EC = 10
BC1201A-AB.ADA	P	SC = 8	EC = 4
BC1201B-AB.ADA	P	SC = 7	EC = 3
BC1202A-AB.ADA	P	SC = 5	EC = 1
BC1202B-AB.ADA	P	SC = 7	EC = 1
BC1202C-AB.ADA	P	SC = 5	EC = 1
BC1202D-AB.ADA	P	SC = 7	EC = 1
BC1203A-AB.ADA	P	SC = 11	EC = 2
BC1206A-B.ADA	W		
CC1220A-B.ADA	P	SC = 20	
CC1301A-AB.ADA	W		
CC1302A-AB.ADA	W		
BC1303A-AB.ADA	P	SC = 5	EC = 1
BC1303B-AB.ADA	P	SC = 7	EC = 1
BC1303C-AB.ADA	P	SC = 7	EC = 1
BC1303D-AB.ADA	P	SC = 5	EC = 1
BC1303E-AB.ADA	P	SC = 5	EC = 1
CC1304A-AB.ADA	P	SC = 46	
CC1305B-AB.ADA	P	SC = 63	
BC1306A-B.ADA	P	SC = 26	EC = 2
CC1307A-AB.ADA	P	SC = 13	
CC1308A-AB.ADA	P	SC = 37	
CC1310A-AB.ADA	P	SC = 33	
BC2001A-AB.ADA	P	SC = 10	EC = 2
BC2001B-AB.ADA	P	SC = 10	EC = 2
CC2002A-AB.ADA	P	SC = 22	
BC3002A-AB.ADA	P	SC = 13	EC = 3
BC3002B-AB.ADA	P	SC = 9	EC = 3
BC3002C-AB.ADA	P	SC = 8	EC = 2
BC3002D-AB.ADA	P	SC = 9	EC = 3
BC3002E-AB.ADA	P	SC = 10	EC = 3
BC3003A-AB.ADA	P	SC = 15	EC = 3
BC3003B-AB.ADA	P	SC = 17	EC = 3
CC3004A-B.ADA	P	SC = 28	
BC3005A-AB.ADA	P	SC = 21	EC = 6
BC3006A-AB.ADA	P	SC = 17	EC = 4
CC3007A-AB.ADA	P	SC = 53	
CC3011A-B.ADA	P	SC = 60	
BC3011B-B.ADA	P	SC = 21	EC = 2
BC3011C-AB.ADA	P	SC = 11	EC = 3
CC3011D-B.ADA	P	SC = 30	
CC3012A-AB.ADA	P	SC = 119	
BC3013A-AB.ADA	PS	SC = 18	EC = 3
BC3101A-B.ADA	P	SC = 131	EC = 36
BC3101B-B.ADA	W		

BC3102A-B.ADA	P	SC = 101	EC = 33
BC3102B-B.ADA	P	SC = 101	EC = 33
BC3103A-AB.ADA	P	SC = 60	EC = 12
BC3103B-AB.ADA	P	SC = 12	EC = 1
CC3120A-AB.ADA	P	SC = 85	
CC3120B-B.ADA	W		
CC3125A-B.ADA	P	SC = 32	
BC3201A-B.ADA	P	SC = 21	EC = 5
BC3201B-AB.ADA	P	SC = 21	EC = 5
BC3201C-B.ADA	P	SC = 24	EC = 6
BC3202A-B.ADA	P	SC = 55	EC = 16
BC3202B-B.ADA	P	SC = 52	EC = 16
BC3202C-B.ADA	P	SC = 49	EC = 14
CC3203A-B.ADA	W		
BC3203B-B.ADA	P	SC = 66	EC = 8
BC3204A-B.ADA	W		
BC3204B-B.ADA	W		
BC3204C0-B.DEP	PC	SC = 5	EC = 0
BC3204C1M-B.DEP	W		
BC3204C2-B.DEP	PC	SC = 16	EC = 1
BC3204D-AB.ADA	W		
BC3204E-B.ADA	P	SC = 42	EC = 8
BC3205A-B.ADA	W		
BC3205B-B.ADA	W		
BC3205C-AB.ADA	W		
BC3205D0-B.ADA	PC	SC = 9	EC = 0
BC3205D1M-B.ADA	W		
BC3205D2-B.ADA	PC	SC = 13	EC = 1
BC3205E-B.ADA	P	SC = 62	EC = 16
BC3205F-B.ADA	W		
BC3205G-B.ADA	W		
BC3205H-B.ADA	W		
BC3205I0-B.ADA	PC	SC = 9	EC = 0
BC3205I1M-B.ADA	W		
BC3205I2-B.ADA	PC	SC = 13	EC = 1
BC3205J-B.ADA	W		
CC3208A-AB.ADA	P	SC = 35	
CC3208B-AB.ADA	P	SC = 37	
BC3301A-AB.ADA	P	SC = 37	EC = 7
BC3301B-AB.ADA	P	SC = 17	EC = 4
BC3302A-AB.ADA	P	SC = 33	EC = 10
BC3302B-AB.ADA	P	SC = 21	EC = 6
BC3303A-AB.ADA	P	SC = 33	EC = 10
BC3304A-AB.ADA	P	SC = 35	EC = 11
CC3305A-AB.ADA	P	SC = 35	
CC3305B-AB.ADA	P	SC = 23	
CC3305C-AB.ADA	P	SC = 23	
CC3305D-AB.ADA	P	SC = 23	
BC3401A-AB.ADA	P	SC = 28	EC = 10
BC3401B-AB.ADA	P	SC = 16	EC = 4
BC3402A-AB.ADA	P	SC = 29	EC = 6
BC3402B-AB.ADA	P	SC = 22	EC = 6

BC3403A-AB.ADA	P	SC = 85	EC = 19
BC3403B-AB.ADA	P	SC = 82	EC = 18
BC3403C-AB.ADA	W		
BC3404A-AB.ADA	P	SC = 86	EC = 14
BC3404B-B.ADA	W		
BC3404C-AB.ADA	P	SC = 21	EC = 4
BC3404D-AB.ADA	P	SC = 49	EC = 12
BC3404E-AB.ADA	P	SC = 39	EC = 3
BC3404F-AB.ADA	P	SC = 36	EC = 3
BC3405A-AB.ADA	P	SC = 55	EC = 9
BC3405B-B.ADA	W		
BC3405C-B.ADA	W		
BC3405D-AB.ADA	P	SC = 61	EC = 8
BC3405E-AB.ADA	W		
BC3405F-AB.ADA	W		
CC3406A-AB.ADA	P	SC = 21	
CC3406B-AB.ADA	P	SC = 22	
CC3406C-AB.ADA	P	SC = 27	
CC3406D-B.ADA	P	SC = 23	
CC3407A-AB.ADA	P	SC = 35	
CC3407B-AB.ADA	P	SC = 34	
CC3407C-AB.ADA	P	SC = 35	
CC3407D-AB.ADA	P	SC = 55	
CC3407E-AB.ADA	P	SC = 30	
CC3407F-AB.ADA	P	SC = 21	
CC3408A-AB.ADA	P	SC = 21	
CC3408B-AB.ADA	P	SC = 22	
CC3408C-AB.ADA	P	SC = 27	
CC3408D-B.ADA	P	SC = 22	
BC3501A-AB.ADA	P	SC = 23	EC = 4
BC3501B-AB.ADA	P	SC = 18	EC = 4
BC3501C-AB.ADA	P	SC = 32	EC = 5
BC3501D-AB.ADA	P	SC = 27	EC = 5
BC3501E-AB.ADA	P	SC = 30	EC = 4
BC3501F-AB.ADA	P	SC = 30	EC = 3
BC3501G-AB.ADA	P	SC = 73	EC = 9
BC3501H-AB.ADA	P	SC = 62	EC = 9
BC3501I-AB.ADA	P	SC = 17	EC = 3
BC3501J-AB.ADA	P	SC = 13	EC = 2
BC3501K-AB.ADA	P	SC = 15	EC = 2
BC3502A-AB.ADA	P	SC = 25	EC = 4
BC3502B-AB.ADA	P	SC = 49	EC = 13
BC3502C-AB.ADA	P	SC = 72	EC = 16
BC3502D-AB.ADA	P	SC = 123	EC = 26
BC3502E-AB.ADA	P	SC = 103	EC = 17
BC3502F-AB.ADA	P	SC = 36	EC = 7
BC3502G-AB.ADA	P	SC = 44	EC = 13
BC3502H-AB.ADA	P	SC = 62	EC = 13
BC3502I-AB.ADA	P	SC = 86	EC = 20
BC3502J-AB.ADA	P	SC = 85	EC = 16
BC3502K-AB.ADA	P	SC = 12	EC = 2
BC3502L-AB.ADA	P	SC = 19	EC = 5

BC3502M-AB.ADA	P	SC = 15	EC = 3
BC3502N-AB.ADA	P	SC = 26	EC = 3
BC3502O-AB.ADA	P	SC = 28	EC = 3
BC3503A-B.ADA	P	SC = 62	EC = 12
BC3503B-B.ADA	P	SC = 43	EC = 8
BC3503C-B.ADA	W		
BC3503D-B.ADA	P	SC = 34	EC = 6
BC3503F-B.ADA	P	SC = 18	EC = 3
CC3504A-B.ADA	P	SC = 43	
CC3504B-B.ADA	P	SC = 48	
CC3504C-B.ADA	P	SC = 57	
CC3504D-B.ADA	P	SC = 33	
CC3504E-B.ADA	P	SC = 40	
CC3504F-B.ADA	P	SC = 45	
CC3504G-B.ADA	P	SC = 54	
CC3504H-B.ADA	P	SC = 35	
CC3504I-B.ADA	P	SC = 29	
CC3504J-B.ADA	P	SC = 30	
CC3504K-B.ADA	P	SC = 30	
CC3601C-AB.ADA	W		
CC3602A-AB.ADA	P	SC = 36	
AE2101A-B.ADA	PS	SC = 45	
AE2101B-B.ADA	P	SC = 15	
AE2101C-B.ADA	P	SC = 17	
AE2101D-B.ADA	P	SC = 15	
BE2101E-B.ADA	PS	SC = 42	EC = 16
CE2102A-B.DEP	NA (USE_ERROR)	SC = 73	
CE2102B-B.DEP	NA (USE_ERROR)	SC = 71	
CE2102C-B.DEP	NA (USE_ERROR)	SC = 52	
CE2102D-B.DEP	NA (USE_ERROR)	SC = 63	
CE2102E-B.DEP	NA (USE_ERROR)	SC = 63	
CE2102F-B.DEP	NA (USE_ERROR)	SC = 34	
CE2102G-B.DEP	NA (USE_ERROR)	SC = 64	
CE2103A-B.DEP	NA (USE_ERROR)	SC = 87	
CE2103B-B.DEP	NA (USE_ERROR)	SC = 87	
CE2104A-B.DEP	NA (USE_ERROR)	SC = 59	
CE2104B-B.DEP	NA (USE_ERROR)	SC = 66	
CE2105A-B.DEP	NA (USE_ERROR)	SC = 25	
CE2106A-B.DEP	NA (USE_ERROR)	SC = 59	
CE2107A-B.DEP	NA (USE_ERROR)	SC = 45	
CE2107B-B.DEP	NA (USE_ERROR)	SC = 36	
CE2107C-B.DEP	NA (USE_ERROR)	SC = 37	
CE2107D-B.DEP	NA (USE_ERROR)	SC = 43	
CE2107E-B.DEP	NA (USE_ERROR)	SC = 34	
CE2108A-B.DEP	NA (USE_ERROR)	SC = 16	
CE2108B-B.DEP	NA (USE_ERROR)	SC = 20	
CE2108C-B.DEP	NA (USE_ERROR)	SC = 20	
CE2108D-B.DEP	NA (USE_ERROR)	SC = 26	
CE2108E-B.DEP	NA (USE_ERROR)	SC = 20	
CE2108F-B.DEP	NA (USE_ERROR)	SC = 26	
CE2109A-B.DEP	NA (USE_ERROR)	SC = 25	
CE2110A-B.DEP	NA (USE_ERROR)	SC = 47	

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CE2110B-B.DEP    NA (USE_ERROR)  SC =  43
CE2111A-B.DEP    NA (USE_ERROR)  SC =  73
CE2111B-B.DEP    NA (USE_ERROR)  SC =  53
CE2111C-B.DEP    NA (USE_ERROR)  SC =  87
CE2111D-B.DEP    NA (USE_ERROR)  SC =  69
BE2112A-B.ADA    P   SC =  48    EC = 33
BE2112B-B.ADA    P   SC =  19    EC = 10
BE2112C-B.ADA    P   SC =  26    EC = 13
BE2114A-B.ADA    P   SC =  18    EC =  3
CE2201A-B.DEP    NA (USE_ERROR)  SC = 119
CE2201B-B.DEP    NA (USE_ERROR)  SC =  81
CE2201C-B.DEP    NA (USE_ERROR)  SC =  51
CE2201D-B.DEP    NA (USE_ERROR)  SC =  36
CE2201E-B.DEP    NA (USE_ERROR)  SC =  38
CE2201F-B.DEP    NA (USE_ERROR)  SC =  36
BE2208A-B.ADA    P   SC =  12    EC =  3
CE2210A-B.DEP    NA (USE_ERROR)  SC =  26
CE2401A-B.DEP    NA (USE_ERROR)  SC = 103
CE2401B-B.DEP    NA (USE_ERROR)  SC = 104
CE2401C-B.DEP    NA (USE_ERROR)  SC = 111
CE2401D-B.DEP    NA (USE_ERROR)  SC =  75
CE2401E-B.DEP    W
CE2401F-B.DEP    NA (USE_ERROR)  SC =  47
CE2402A-B.DEP    P   SC =  57
CE2404A-B.DEP    NA (USE_ERROR)  SC =  34
CE2405B-B.DEP    NA (USE_ERROR)  SC =  21
CE2406A-B.DEP    NA (USE_ERROR)  SC =  34
CE2407A-B.DEP    NA (USE_ERROR)  SC =  26
CE2408A-B.DEP    NA (USE_ERROR)  SC =  30
CE2409A-B.DEP    NA (USE_ERROR)  SC =  26
CE2410A-B.DEP    NA (USE_ERROR)  SC =  27
BE3001A-B.ADA    P   SC =  10    EC =  4
BE3002A-B.ADA    P   SC =  17    EC =  4
CE3002B-B.ADA    P   SC =  20
CE3002C-B.ADA    P   SC =  17
CE3002D-B.ADA    P   SC =  18
BE3002E-B.ADA    P   SC =   8    EC =  3
CE3002F-B.ADA    P   SC =  14
AE3101A-B.DEP    NA (USE_ERROR)  SC =  19
CE3102A-B.DEP    NA (USE_ERROR)  SC =  54
CE3102D-B.DEP    NA (USE_ERROR)  SC =  18
CE3103A-B.ADA    NA (USE_ERROR)  SC =  45
CE3104A-B.DEP    NA (USE_ERROR)  SC =  49
BE3105A-B.ADA    P   SC =   5    EC =  1
CE3202A-B.DEP    P   SC =  11
CE3203A-B.DEP    NA (USE_ERROR)  SC =  38
BE3205A-B.ADA    P   SC =   9    EC =  6
CE3206A-B.DEP    P   SC =  18
CE3208A-B.DEP    NA (USE_ERROR)  SC =  28
CE3301A-B.DEP    NA (USE_ERROR)  SC =  30
CE3301B-B.DEP    NA (USE_ERROR)  SC =  50
CE3301C-B.DEP    NA (USE_ERROR)  SC =  23
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CE3302A-B.DEP	NA (USE_ERROR)	SC = 33	
CE3303A-B.DEP	P	SC = 30	
CE3305A-B.DEP	NA (USE_ERROR)	SC = 37	
CE3402A-B.ADA	P (USE_ERROR)	SC = 26	
CE3402B-B.ADA	P (USE_ERROR)	SC = 41	
CE3402C-B.ADA	P (USE_ERROR)	SC = 35	CT = 2:31 ET = 2.05
CE3402D-B.ADA	P (USE_ERROR)	SC = 25	
CE3402E-B.ADA	P (USE_ERROR)	SC = 25	
CE3403A-B.ADA	P (USE_ERROR)	SC = 26	
CE3403B-B.ADA	P (USE_ERROR)	SC = 54	
CE3403C-B.ADA	P (USE_ERROR)	SC = 32	
CE3403D-B.ADA	P	SC = 28	
CE3403E-B.ADA	P (USE_ERROR)	SC = 43	
CE3403F-B.ADA	P (USE_ERROR)	SC = 46	
CE3404A-B.ADA	P (USE_ERROR)	SC = 31	
CE3404B-B.ADA	P (USE_ERROR)	SC = 36	
CE3404C-B.ADA	P (USE_ERROR)	SC = 70	
CE3405A-B.ADA	P (USE_ERROR)	SC = 38	
CE3405B-B.ADA	P (USE_ERROR)	SC = 26	
CE3405C-B.ADA	P (USE_ERROR)	SC = 30	
CE3405D-B.ADA	P (USE_ERROR)	SC = 32	
CE3406A-B.ADA	P (USE_ERROR)	SC = 42	
CE3406B-B.ADA	P (USE_ERROR)	SC = 30	
CE3406C-B.ADA	W		
CE3406D-B.ADA	P (USE_ERROR)	SC = 28	
CE3407A-B.ADA	P (USE_ERROR)	SC = 51	
CE3407B-B.ADA	P (USE_ERROR)	SC = 26	
CE3407C-B.ADA	P (USE_ERROR)	SC = 31	
CE3408A-B.ADA	P (USE_ERROR)	SC = 49	
CE3408B-B.ADA	P (USE_ERROR)	SC = 41	
CE3408C-B.ADA	P (USE_ERROR)	SC = 31	
CE3409A-B.ADA	P (USE_ERROR)	SC = 23	
CE3409B-B.ADA	P	SC = 32	
CE3409C-B.ADA	P (USE_ERROR)	SC = 68	
CE3409D-B.ADA	P (USE_ERROR)	SC = 39	
CE3409E-B.ADA	P (USE_ERROR)	SC = 29	
CE3409F-B.ADA	P (USE_ERROR)	SC = 25	
CE3410A-B.ADA	P (USE_ERROR)	SC = 23	
CE3410B-B.ADA	P	SC = 32	
CE3410C-B.ADA	P (USE_ERROR)	SC = 66	
CE3410D-B.ADA	P (USE_ERROR)	SC = 32	
CE3410E-B.ADA	NA (USE_ERROR)	SC = 23	
CE3410F-B.ADA	P (USE_ERROR)	SC = 25	
CE3411A-B.ADA	NA (USE_ERROR)	SC = 64	
CE3411C-B.ADA	NA (USE_ERROR)	SC = 50	
CE3412A-B.ADA	NA (USE_ERROR)	SC = 51	
CE3412C-B.ADA	NA (USE_ERROR)	SC = 54	
CE3413A-B.ADA	NA (USE_ERROR)	SC = 36	
CE3413C-B.ADA	NA (USE_ERROR)	SC = 50	
BE3501A-B.ADA	P	SC = 8	EC = 4
CE3601A-B.ADA	P	SC = 45	
CE3602A-B.DEP	NA (USE_ERROR)	SC = 55	

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CE3602B-B.DEP    NA (USE_ERROR)  SC = 54
CE3602C-B.DEP    NA (USE_ERROR)  SC = 56
CE3602D-B.DEP    NA (USE_ERROR)  SC = 48
CE3603A-B.DEP    NA (USE_ERROR)  SC = 84
CE3604A-B.DEP    NA (USE_ERROR)  SC = 117
CE3605A-B.DEP    NA (USE_ERROR)  SC = 24
CE3605B-B.DEP    NA (USE_ERROR)  SC = 46
CE3605C-B.DEP    NA (USE_ERROR)  SC = 55
CE3605D-B.DEP    NA (USE_ERROR)  SC = 56
CE3605E-B.DEP    NA (USE_ERROR)  SC = 34
CE3606A-B.DEP    NA (USE_ERROR)  SC = 30
CE3606B-B.DEP    NA (USE_ERROR)  SC = 20
BE3606C-B.ADA    P   SC = 6      EC = 1
CE3701A-B.DEP    NA (USE_ERROR)  SC = 33
AE3702A-B.DEP    PS  SC = 21
BE3703A-B.ADA    P   SC = 23     EC = 8
CE3704A-B.DEP    NA (USE_ERROR)  SC = 40
CE3704B-B.DEP    NA (USE_ERROR)  SC = 31
CE3704C-B.ADA    NA (USE_ERROR)  SC = 29
CE3704D-B.DEP    NA (USE_ERROR)  SC = 54
CE3704E-B.DEP    NA (USE_ERROR)  SC = 37
CE3704F-B.DEP    NA (USE_ERROR)  SC = 40
CE3706C-B.ADA    NA (USE_ERROR)  SC = 36
CE3706F-B.DEP    NA  SC = 29
CE3706G-B.ADA    NA (USE_ERROR)  SC = 26
CE3707A-B.DEP    P   SC = 53
CE3801A-B.DEP    P   SC = 39
BE3802A-B.ADA    PS  PS          SC = 25     EC = 7
BE3803A-B.ADA    P   SC = 27     EC = 12
CE3804A-B.DEP    NA (USE_ERROR)  SC = 61
CE3804B-B.DEP    NA (USE_ERROR)  SC = 61
CE3804C-B.DEP    NA (USE_ERROR)  SC = 64
CE3804D-B.ADA    NA (USE_ERROR)  SC = 55
CE3804E-B.ADA    NA (USE_ERROR)  SC = 55
CE3804F-B.DEP    NA (USE_ERROR)  SC = 30
CE3804G-B.DEP    NA (USE_ERROR)  SC = 79
CE3804I-B.DEP    NA (USE_ERROR)  SC = 54
CE3805A-B.DEP    NA (USE_ERROR)  SC = 67
CE3805B-B.DEP    NA (USE_ERROR)  SC = 68
CE3806A-B.DEP    NA (USE_ERROR)  SC = 44
CE3806C-B.DEP    NA (USE_ERROR)  SC = 55
CE3806D-B.DEP    NA (USE_ERROR)  SC = 64
CE3806E-B.ADA    NA (USE_ERROR)  SC = 94
CE3809A-B.DEP    P   SC = 86
CE3809B-B.DEP    P   SC = 86
CE3810A-B.DEP    P   SC = 42
CE3901A-B.DEP    P   SC = 23
BE3902A-B.ADA    P   SC = 24     EC = 3
BE3903A-B.ADA    P   SC = 28     EC = 12
CE3905A-B.DEP    NA (USE_ERROR)  SC = 38
CE3905B-B.DEP    NA (USE_ERROR)  SC = 31
CE3905C-B.DEP    NA (USE_ERROR)  SC = 71
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CE3906A-B.DEP     NA (USE_ERROR)  SC = 34
CE3906B-B.DEP     NA (USE_ERROR)  SC = 31
CE3906C-B.DEP     NA (USE_ERROR)  SC = 37
CE3906D-B.ADA     NA (USE_ERROR)  SC = 26
CE3906E-B.DEP     NA (USE_ERROR)  SC = 31
CE3906F-B.ADA     NA (USE_ERROR)  SC = 41
CE3907A-B.DEP     P   SC = 25
CE3908A-B.DEP     P   SC = 29
CZ1101A-AB.ADA    P   SC = 23    CT = 0:42
CZ1102A-AB.ADA    P   SC = 15
CZ1103A-B.ADA     NA (USE_ERROR)  SC = 85    CT = 3:10
REPORT_SPEC-AB.ADA  PC            SC = 11
REPORT_BODY-B.ADA   PC            SC = 82    CT = 3:30
CHECK_FILE-B.ADA PC  SC = 68      CT = 3:14
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END

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